Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 1.4.5 150 155 Ser Cys Thr Gly Thr Ser Ser Asn Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 235 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1133 <211> 251 <212> PRT <213> Homo sapiens <400> 1133 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lvs Val Ser Cvs Lvs Ala Ser Glv Glv Thr Phe Ser Ser Tvr Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val

100 105 110

Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser

Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu Thr 130 135 140

Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser 145 150 155 160

Cys Thr Gly Ser Ser Ser Asn Ile Gly Asp Gly Tyr Asp Val His Trp 165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn 180 \$185\$

Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200

Asp Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Val Glu Asp Glu 210 $\,$ 215 $\,$ 220 $\,$

Ala Asp Tyr Phe Cys His Ser Tyr Asp Ser Ser Leu Ser Gly Trp Ile 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly $245 \ \ \, 250$

<210> 1134

<211> 248 <212> PRT

<213> Homo sapiens

<400> 1134

Glu Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ile Phe Ser Ser Asn 20 25 30

Gly Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Gly Ala Ile Ile Pro Lys Phe Lys Thr Ala His Tyr Ala Gln Asn Phe 50 55 60

Gln 65	Gly	Arg	Val	Thr	Ile 70	Asn	Ala	Asp	Asp	Leu 75	Thr	Arg	Thr	Val	Tyr 80
Met	Glu	Leu	Ser	Ser 85		Arg	Ser	Gly	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Gly	Gly 100	Ser	Ser	Gln	Asn	Phe 105	Tyr	Gly	Met	Asp	Val 110	Trp	Gly
Arg	Gly	Thr 115	Met	Val	Thr	Val	Ser 120	Ser	Gly	Gly	Gly	Gly 125	Ser	Gly	Gly
Gly	Gly 130	Ser	Gly	Gly	Gly	Gly 135	Ser	Ala	Gln	Pro	Val 140	Leu	Thr	Gln	Pro
Pro 145	Ser	Ala	Ser	Gly	Thr 150	Pro	Gly	Gln	Arg	Val 155	Thr	Ile	Ser	Сув	Ser 160
Gly	Ser	ser	Ser	Asn 165	Ile	Gly	Ser	Asn	Thr 170	Val	Asn	Trp	Tyr	Gln 175	Gln
Val	Pro	Gly	Thr 180	Ala	Pro	Lys	Leu	Leu 185	Met	Tyr	Thr	Asn	Asn 190	Gln	Arg
Pro	Ser	Gly 195	Val	Pro	Asp	Arg	Phe 200	Ser	Gly	Ser	Lys	Ser 205	Gly	Thr	Ser
Ala	Ser 210	Leu	Ala	Ile	Ser	Gly 215	Leu	Gln	Ser	Glu	Asp 220	Glu	Ala	Asp	Tyr
Tyr 225	Cys	Ala	Ala	Trp	Asp 230	Asp	Ser	Leu	Asn	Gly 235	Trp	Val	Phe	Gly	Gly 240
Gly	Thr	Lys	Val	Thr 245	Val	Leu	Gly								
<210> 1135 <211> 252 <212> PRT <213- Momo sapiens															
)> 1: Val		Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser

Ser Val Lys Val Ser Cys Met Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 Ile Ser Trp Val Arq Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 40 Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 55 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 75 7.0 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 90 Arg Glu Leu Glv Leu Ser Ile Val Glv Ala Thr Thr Glv Ala Leu Asp 100 105 Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val 130 135 Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150 155 Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Phe 170 165 175 Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Arg 180 185 Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Thr 195 200 205 Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp 215 . 210 220 Glu Ala Asp Tyr Tyr Cys Ala Ala Arg Asp Asp Ser Leu Arg Gly Pro 235 225 230

> 250 1351

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1136 <211> 254 <212> PRT <213> Homo sapiens <400> 1136 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 10 15 Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95 Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 . 105 110 Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu 130 135 Thr Gln Pro Ser Ser Val Ser Gly Thr Pro Gly Gln Thr Ile Thr Ile 145 150 155 160 Ser Cys Thr Gly Ser Asp Ser Asn Ile Gly Ala Gly Tyr Asp Val His 165 170 175 Trp Tyr Gln His Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Val 180 185

1352

205

Asn Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys

200

Ser Gly Thr Leu Ala Ser Leu Val Ile Thr Gly Leu Gln Ala Glu Asp 210 \$215\$

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Leu Ser Leu Thr Gly Arg 225 230 235

Asn Tyr Val Phe Gly Ser Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1137

<211> 255 <212> PRT

<213> Homo sapiens

<400> 1137

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly 1 $$ 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Asn Asn 20 . 25 . $30\,$

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ser Leu Ile Tyr Ser Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val Lys 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Ala Gly Ser Gly Phe His Asp Ile Leu Thr Gly Tyr Tyr Lys Gly \$100\$

Gly Tyr Phe Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 115 \$120\$

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala 130 135 140

Gln Pro Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln 145 150 155 160

Arg Val Thr Ile Ser Cys Ser Gly Ser Arg Ser Asn Ile Gly Ser Asn 165 170 175

Thr Val Ser Trp Phe Arg Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu 180 $$185\ \ \, 190\ \ \,]$

Ile Tyr Thr Asp Thr Gln Arg Pro Ser Gly Val Pro Asp Arg Val Ser

Gly Ser Arg Ser Gly Ser Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln 210 215 220

Asn Gly Trp Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly
245 250 255

<210> 1138

<211> 249

<212> PRT <213> Homo sapiens

<400> 1138

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Asn Phe Asn Ser Tyr 20 25 30

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Arg Ile Ile Pro Asn Val Gly Thr Ala Asn Tyr Ala Gln Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr 65 70 75 80

Leu Glu Val Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Ala Glu Cys Phe

Gln Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly

115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser 130 140

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Ala Val 145 150 155 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Phe Asp Ala Ser Trp \$165\$ \$170\$

Tyr Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Ile Phe Ser Asn 180 185 190

Thr Arg Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ile Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 215 220

Ala Ala Tyr Tyr Cys Cys Ser Arg Asp Ser Gly Asp His Val Phe Gly 225 230 235

Gly Gly Thr Lys Val Thr Val Leu Gly

<210> 1139

<400> 1139

<211> 254

<212> PRT

<213> Homo sapiens

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Thr His 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val $_{\rm 35}$ $_{\rm 40}$ $_{\rm 45}$

Ala Gly Ile Ser Tyr Asp Gly Arg Tyr Lys Tyr Tyr Ala Asp Ser Val

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Gln Gly Ser Val Tyr Asp Ile Leu Thr Gly Thr Tyr Tyr Lys Ser $100 \ \ 105 \ \ \ 110$

Gly Met Gly Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln 130 135 140

Ser Val Val Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Met 145 $$150\$

Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asp Ash Phe 165 170 175

Val Ser Trp Tyr Gln His Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile 180 185 190°

Tyr Asp Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr 210 215 220

Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Asn 225 230 230

Ala Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1140 <211> 251 <212> PRT

<213> Homo sapiens

Ser Val Lys Val Phe Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly
35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $_{65}$ $$ 75 $$. 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \ 90 \ 95$

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 $$100\,$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 \$135\$

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 $$ 150 $$ 155 $$ 160

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr
165 170 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile \$195\$ \$200\$ \$205\$

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1141 <211> 251

<212> PRT <213> Homo sapiens

<400> 1141

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \hspace{1cm} 70 \hspace{1cm} 75 \hspace{1cm} 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 . 90 95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp \$100\$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 \$135\$

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 $$ 150 $$ 155 $$ 160

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 \$170 \$175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser $180 \,$

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 . 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 . 220

Glu Ser Asp Tyr Tyr Cys Met Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1142 c211> 249 <212> PRT <213> Homo sapiens <400> 1142 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 10 Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 25 . Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu Gly 3.5 Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Thr Arg Lys Phe Gln 55 Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr Leu 70 Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala 90

Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Tyr Met Asn Val Trp $100 \ \ 105 \ \ \ 110$

Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly

Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln
130 140

Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys 145 150 155 160

Thr Gly Ser Asn Ser Asn Ile Gly Ala Gly Tyr Asp Val His Trp Tyr 165 \$170\$

Gln His Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn Asn 180 185 190

Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly

Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu Ala 210 215 220

Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Gly Leu Asn Val Leu Phe Gly 225 230 235 240

Ala Gly Thr Lys Val Thr Val Leu Gly

<210> 1143

<211> 251

<212> PRT <213> Homo sapiens

<400> 1143

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ala Asn Tyr 20 25 30

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met $35\,$. $40\,$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu

130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 ... 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1144

<211> 252

<212> PRT <213> Homo sapiens

<400> 1144

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser 115 \$120\$

Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu Thr $130\,$

Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser 145 \$150\$

Cys Ala Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His $\dot{\text{Trp}}$ 165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn 180 185 190

Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Gly Ser Thr 225 \$230\$

Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1145 <211> 252

<212> PRT

<213> Homo sapiens

-

<400.1145
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15</pre>

Ser Val Lys Val Phe Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \\ 25 \\ 30$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 $\,$ 60 $\,$.

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 70 75 $ 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95 95 $^{\circ}$

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 $$ 150 $$ 155 $$ 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Phe \$165\$

Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Arg 180 185 190

Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Thr

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp 210 215

Glu Ala Asp Tyr Tyr Cys Ala Ala Arg Asp Asp Ser Leu Arg Asp Pro $225 \hspace{1cm} 230 \hspace{1cm} 235 \hspace{1cm} 240 \hspace{1cm}$

Ile Phe Gly Gly Glu Thr Lys Leu Thr Val Leu Asp

<210> 1146

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1146

Gln 1	Val	Gln	Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ala
Ser	Val	Lys	Val 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Tyr	Thr	Phe	Thr 30	Gly	Tyr
Ala	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Arg	Leu 45	Glu	Trp	Met
Gly	Trp 50	Ile	Asn	Ala	Gly	Asn 55	Gly	Asn	Thr	Lys	Tyr 60	Ser	Arg	Lys	Phe
Gln 65	Gly	Arg	Val	Thr	Ile 70	Thr	Arg	Asp	Thr	Ser 75	Ala	Ser	Thr	Ala	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Gly	Tyr 100	Asp	Asp	Ile	Leu	Thr 105	Gly	Tyr	Ile	Met	Ala 110	Leu	Asp
Tyr	Trp	Gly 115	Arg	Gly	Thr	Leu	Val 120	Thr	Val	Ser	Ser	Gly 125	Gly	Gly	Gly
Ser	Gly 130	Gly	Gly	Gly	Ser	Gly 135	Gly	Gly	Gly	Ser	Ala 140	Gln	Ser	Val	Leu
Thr 145	Gln	Pro	Pro	Ser	Val 150	Ser	Ala	Ala	Pro	Gly 155	Gln	Arg	Val	Thr	Ile 160
Ser	Cys	Ser	Gly	Ser 165	Ser	Ser	Asn	Ile	Gly 170	Ser	His	Phe	Val	Ser 175	Trp
Tyr	Gln	Gln	Phe 180	Pro	Gly	Thr	Ala	Pro 185	His	Leu	Leu	Ile	Tyr 190	Asp	Asn
Asn	Lys	Arg 195	Pro	Ser	Gly	Ile	Pro 200	Asp	Arg	Phe	Ser	Gly 205	Ser	Lys	Ser
Asp	Thr 210	Ser	Ala	Thr	Leu	Asp 215	Île	Thr	Gly	Leú	Gln 220	Pro	Gly	Asp	Glu
Ala 225	Asp	Tyr	Tyr	Cys	Gly 230	Thr	Trp	Asp	Ser	Ser 235	Leu	Thr	Ala	Trp	Val 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1147 <211> 251

<212> PRT <213> Homo sapiens

<400> 1147

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val 130 135 140

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 155 160

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Phe Ser

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 \$200\$

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1148

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1148

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Arg Ala Phe Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $50 \ \ 55 \ \ 60$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 70 75 . 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile

145 150 155 160

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 \$215\$

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 $$ 230 $$. 235 $$ 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1149 <211> 251 <212> PRT

<213> Homo sapiens

<400> 1149 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \\ 25 \\ 30$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $50 \ \ 55 \ \ 60$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $_{65}$ $_{70}$ $_{70}$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 135 Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 150 155 160 Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 175 Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190 Thr Lys Ile Arg Ser Ser Gly Val Leu Ile Gly Ser Leu Ala Ser Ile 200 195 Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 215 220 Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 230 235 240 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1150 <211> 256 <212> PRT <213> Homo sapiens <400> 1150 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 10 Ser Leu Lys Leu Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 25

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 40 35

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 90 Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 105 100 Met Trp Glv Arg Glv Thr Met Val Thr Val Ser Ser Glv Glv Glv Glv 115 120 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Arq 135 Thr Gln Pro Ser Ser Leu Tyr Ala Ser Pro Val Ala Ser Ser Ser Leu 150 - 155 Thr Cys Ala Ser Leu Ser Gly Ile Asn Ala Gly Thr Leu Gly Ile Tyr 170 Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Gln Tyr Leu Val Ser Cys Lys Ser Val Ser Asp Lys Gln Gln Gly Ser Gly Val Pro Ser Arg Phe 195 200 Phe Gly Ser Lys Asp Ala Ser Ala Asn Ala Gly Ile Ser Ile Ile Ser 210 215 Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Met Ile Arg His 235 240 225 230 Ser Ser Ala Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1151 <210> __ <211> 251 PDT

<213> Homo sapiens

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 10

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 25 20 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 8.5 95 Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110 Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 135 140 Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 150 155 160 Thr Cvs Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190 Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 205 Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220

Glu Ser Asp Tvr Phe Ser Leu Leu Tvr Met Glv Ser Glv Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

216	\. 4														
<211 <212	<pre><210 1152 <211> 251 <212> PRT <213> Homo sapiens</pre>														
)> 1: Val		Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser
Ser	Leu	Lys	Leu 20	Ser	Cys	Arg	Ala	Ser 25	Gly	Gly	Ser	Phe	Asn 30	His	Ala
Ile	Ser	Trp 35	Val	Arg	Gln	Ala	Pro 40	Gly	Arg	Gly	Leu	Glu 45	Trp	Met	Gly
Gly	Ile 50	Leu ,	Pro	Met	Tyr	Gly 55	Thr	Ala	Asn	Tyr	Ala 60	Gln	Lуs	Phe	Gln
Gly 65	Arg	Val	Thr	Ile	Thr	Ala	Asp	Lys	Leu	Thr 75	Asn	Thr	Val	Tyr	Met 80
Asp	Leu	Ser	Arg	Leu 85	Arg	Tyr	Glu	Asp	Thr 90	Ala	Val	Tyr	Tyr	Cys 95	Ala
Arg	Glu	Leu	Gly 100	Ser	Ser	Ile	Val	Gly 105	Ala	Thr	Thr	Gly	Ala 110	Leu	Asp
Met	Trp	Gly 115	Arg	Gly	Thr	Met	Val 120	Thr	Val	Ser	Ser	Gly 125	Gly	Gly	Gly
Ser	Gly 130	Gly	Gly	Gly	Ser	Gly 135	Gly	Gly	Gly	Ser	Ala 140	Gln	Ala	Val	Val
Ile 145	Gln	Glu	Pro	Ser	Phe 150	Ser	Val	Ser	Pro	Gly 155	Gly	Thr	Val	Thr	Ile 160
Thr	Cys	Gly	Leu	Thr 165	Ser	Gly	Ser	Val	Thr 170	Thr	Ser	Tyr	Tyr	Pro 175	Thr
Trp	Tyr	Gln	Gln 180	Ala	Pro	Gly	Gln	Ala 185	Pro	Arg	Thr	Leu	Ile 190	Tyr	ser

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 \$200\$

Ile Gly Asn Lys Ala Gly Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 . 215 220

Glu Ser Asp Tyr Tyr Trp Leu Leu Tyr Met Gly Ser Gly Thr Pro Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1153

<211> 255

<212> PRT <213> Homo sapiens

<400> 1153

Gln Val Gln Leu Val Glu Ser Gly Pro Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser 20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met $_{35}$ $_{40}$ $_{45}$

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe $50\,$

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser $100 \ \ 105 \ \ 110$

Ala Phe Asp Gln Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly \$1.15\$

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln
130 135 140

Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr

175 ~

170

Asp Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu 180 185

165

Ile Tvr Arg Asn Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu 235

Ser Glu Glu Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly

<210> 1154

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1154

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 10

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 55

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 75 70

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val 105 100

Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser 115 120

Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu Thr 130 135 140

Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser 145 150 155 160

Cys Thr Gly Ser Ser Ser Asn Ile Gly Asp Gly Tyr Asp Val His Trp \$165\$ \$170\$

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn 180 \$180\$

Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 $200 \ \ \,$

Asp Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Val Lys Asp Glu 210 $\,$ 215 $\,$ 220 $\,$

Ala Asp Tyr Phe Cys His Ser Tyr Asp Ser Ser Val Ser Gly Trp Ile 225 $$ 230 $$ 235 $$ 240

Phe Gly Gly Gly Thr Lys Pro Thr Val Leu Gly \$245\$

<210> 1155

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1155

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

% Ile Ser Trp Val arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $_{65}$ $$ 70 $$ 75 $$ 80

Asp Leu Ser Arq Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 105 100 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 120

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu

Thr Gln Pro Ser Ser Val Ser Gly Thr Pro Gly Gln Arg Val Thr Ile

Ser Cys Ser Gly Ala Arg Ser Asn Ile Gly Ser Asn Thr Val Asn Trp 170 175 165

Tyr Gln His Phe Pro Gly Thr Ala Pro Lys Leu Val Met Tyr Ser Asn 180 185

Asp Gln Arg Pro Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Arg Ser 200 .

Gly Thr Ser Ala Ser Leu Ala Ile Gly Arg Leu Gln Ser Glu Asp Glu 215

Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1156

<211> 255 <212> PRT

<213> Homo sapiens

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr

Tyr	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Leu 45	Glu	Trp	Met
Gly	Ile 50	Ile	Asn	Pro	Ser	Gly 55	Gly	Ser	Thr	Ser	Tyr 60	Ala	Gln	Lys	Phe
Gln 65	Gly	Arg	Val	Thr	Met 70	Thr	Arg	Asp	Thr	Ser 75	Thr	Ser	Thr	Val	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Gly	Gly 100	Glu	Tyr	Asp	Ile	Leu 105	Thr	Gly	Tyr	Tyr	Phe 110	Gly	Leu
Gly	Val	Tyr 115	Asp	Tyr	Trp	Gly	Gln 120	Gly	Thr	Met	Val	Thr 125	Val	Ser	Ser
Gly	Gly 130	Gly	Gly	Ser	Gly	Gly 135	Gly	Gly	Ser	Gly	Gly 140	Gly	Gly	Ser	Ala
Gln 145	Ser	Val	Leu	Thr	Gln 150	Pro	Pro	Ser	Val	Ser 155	Ala	Ala	Pro	Gly	Gln 160
Lys	Val	Thr	Ile	Ser 165	Cys	Ser	Gly	Ser	Ile 170	Ser	Asn	Ile	Gly	Asn 175	Lys
Tyr	Val	Ser	Trp 180	Tyr	Gln	Gln	Leu	Pro 185	Gly	Thr	Ala	Pro	Lys 190	Leu	Leu
Ile	Tyr	Asp 195	Asn	qaA	Lys	Arg	Pro 200	Ser	Gly	Ile	Pro	Asp 205		Phe	Ser
Gly	Ser 210	Lys	Ser	Gly	Thr	Ser 215	Ala	Thr	Leu	Gly	Ile 220	Thr	Gİy	Leu	Gln
Thr 225	Gly	Asp	Glu	Ala	Asp 230	Tyr	Tyr	Cys	Gly	Thr 235	Trp	Asp	Ser	Ser	Leu 240

Ser Ala Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1157 <211> 251

<212> PRT

<213> Homo sapiens

<400> 1157

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $_{\rm 50}$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \ 70 \ 75 \ 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110

Met Trp Gly Thr Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 \cdot 140

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 \$150\$

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 $$170\$

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1158

<211> 250 <212> PRT

<213> Homo sapiens

<400> 1158

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu
35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 7075 75

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser

Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr 130 135 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser 145 150 155 160

Cys Ser Gly Ser Arg Ser Ser Ile Gly Ser Asn Thr Val Asn Trp Tyr \$165\$ \$170\$ \$175\$

Gln Gln Phe Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asp Asp

180 185 190

Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly
195 200 205

Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala 210 215 220

Asp Tyr His Cys Ala Ala Trp Asp Asp Ser Leu Ser Gly Tyr Val Phe . 225 230 235

Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1159 <211> 250

<212> PRT

<213> Homo sapiens

<400> 1159

Glu Ser Ser Trp Cys Ser Leu Gly Leu Arg Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Arg Ala Phe Gly Gly Ser Phe Asn His Ala \$20\$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 70 75 80 $

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 \$90\$ 90 \$95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 . 120 . 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val 130 135

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 155 145 150 160 Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190 Thr Lys Ile Arg Ser Ser Gly Val Leu Ile Gly Ser Leu Ala Pro Ser Leu Gly Thr Ser Cys Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp Glu 210 215 220 Ser Asp Tyr Tyr Trp Leu Leu Tyr Met Gly Ser Gly Thr Arg Val Phe 230 235 225 Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1160 <211> 249 <212> PRT <213> Homo sapiens <400> 1160 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 Ser Gly Gly Ala Ala Gly Leu Leu Glu Ala Pro Ser Thr Met Leu Leu 25 2.0 Ala Gly Cys Asp Arg Pro Arg Asp Glu Gly Leu Ser Gly Trp Glu Gly 35 Ser Ser Leu Cys Met Val Gln Gln Ile Met His Arg Ser Ser Arg Ala 55 60 . Glu His Asp His Arg Gly Gln Ile Asn Glu His Ser Tyr Met Asp Leu

Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Glu 85 90 95

Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp Met Trp \$100\$

Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Val Ile Gln 130 \$135\$

Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile Thr Cys \cdot 145 $\,$ 150 $\,$ 155 $\,$ 160 $\,$

Gly Leu Thr Ser Gly Ser Val Thr Leu Val Thr Thr Pro Leu Gly Thr 165 $$170\$

Ser Arg Pro Gln Ala Arg Leu His Val His Ser Phe Thr Val Gln Arg 180 185

Phe Ala Leu Leu Gly Ser Leu Ile Gly Ser Leu Ala Pro Ser Leu Gly
195 200 205

Thr Lys Leu Pro Ser Pro Ser Arg Gly Pro Arg Gln Met Met Asn Leu 210 220

Ile Ile Thr Val Cys Ser Pro Val Gly Ser Gly Thr Arg Val Phe Gly 225 230235235

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1161

<211> 250 <212> PRT

<213 > Homo sapiens

<400> 11.61

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Arg Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly His

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Trp Ile Asn Pro Asn Asn Gly Gly Thr Asn Tyr Ala Gln Asn Leu 50 60

Gln Gly Arg Ala Thr Phe Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Gly Leu Lys Ser Asp Asp Ser Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Pro Phe Gly Ala Val Pro Gly Tyr Tyr Tyr Tyr Ala Met 100 105 110

Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val 130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Arg 145 150 155 160

Ile Pro Cys Gly Gly Thr Asn Ile Gly Ser Lys Ser Val His Trp Tyr \$165\$ \$170\$ \$170\$

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Phe Asp Asp Ser 180 185 190

Asp Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Asn Ser Gly 195 200 205

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala 210 215 220

Asp Tyr Tyr Cys Gln Val Trp Asp Ile Leu Thr Asp His Val Leu Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1162

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1162

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

WO 02/02641 PCT/US01/19110 -----

Ser Val Lys Val Ser Cys Arg Ala Ile Gly Gly Ser Phe Asn His Ala

. 1

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser-

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1163

<211> 252 <212> PRT

<213> Homo sapiens

<400> 1163

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Phe Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 $$40\$. $$45\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm} .$

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Phe \$165\$

Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Arg 180 . 185 190

Asn Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Thr

195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ala Arg Asp Asp Ser Leu Arg Gly Pro 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1164

<211> 252

<212> PRT

<213 > Homo sapiens

<400> 1164 Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Tyr Asn Phe Gly Asp His $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $_{35}$ $_{40}$ $_{45}$

Gly Trp Met Ser Asn Tyr Ser Gly Lys Thr Lys Tyr Glu Gln Arg Phe $_{50}$

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Phe 65 70 75 80

Met Glu Leu Thr Ser Leu Arg Phe Asn Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Pro Trp Tyr Asp Pro Leu Phe Pro Pro Ser Gly Arg His

Tyr Gly Leu Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 115 \$120\$

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala 130 135

Gln Ser Val Val Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln 145 150 155 160

Arg Val Thr Ile Ser Cys Ser Gly Ser Glu Ala Arg Phe Gly Val Gln
165 170 175

Trp Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp \$180\$

Asn Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Ile Ser Gly Ser Arg

Glu Åla Åsp Tyr Tyr Cys Gln Ser Tyr Åsp Ser Leu Leu Gly Gly Trp 225 \$230\$

Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly \$245\$

<210> 1165

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1165

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Phe Gly Gly Ser Phe Asn His Ala $20~{\rm cm}$. $25~{\rm cm}$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $^{\prime}$ 85 $^{\prime}$ 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu 130 135 140

Thr Gln Pro Ser Ser Val Ser Gly Thr Pro Gly Gln Thr Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Ser Asp Ser Asn Ile Gly Ala Gly Tyr Asp Val His \$165\$

Trp Tyr Gln His Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Val \$180\$

Asn Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys 195 \$200\$

Ser Gly Thr Leu Ala Ser Leu Val Ile Thr Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Leu Ser Leu Thr Gly Arg 225 230 230 235

Asn Tyr Val Phe Gly Ser Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1166

<211> 251

<212> PRT

<213> Homo sapiens

<220>

<221> Site .

<222> (230)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1166

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 \$120\$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Val 130 \$135\$

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 \$150\$

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr . 165 170 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser 180 185 190

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 220

Glu Ser Asp Tyr Tyr Xaa Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1167

<211> 253 <212> PRT

<213> Homo sapiens

<400> 1167

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 15 Pro Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Thr Arg Tyr 20 25 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 3.5 40 Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe 55 60 50 Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr 65 7.0 75 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 9.0 Ala Arg Asp Asn Tyr Asp Ile Leu Thr Gly Tyr Ser Arg Arg Phe Asp 100 105 Pro Trp Glv Gln Glv Thr Leu Val Thr Val Ser Ser Glv Glv Glv Glv 115 120 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Asn Phe Met 130 135 Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys Thr Val Thr 150 155 160 Ile Ser Cys Thr Arg Ser Ser Gly Asn Ile Ala Ser Lys Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ala Pro Thr Thr Val Ile Tyr Glu 185 Asn Asn Arg Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 200 Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly Leu Lys Thr 215

1389

235

Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Lys Pro Ala Pro Phe

Met Ser Ser Glu Leu Gly Pro Ser Met Thr Val Leu Gly $245 \hspace{1cm} 250 \hspace{1cm}$

<210> 1168 <211> 250

<212> PRT <213> Homo sapiens

<400> 1168

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $_{\rm 20}$ $_{\rm 25}$ $_{\rm 30}$

Tile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly
35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $_{\rm 50}$ $_{\rm 60}$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \cdot \hspace{1.5cm} 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Ser Glu 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr His Ala Thr Trp Tyr 165 , 170 175

Glm Gln Lys Pro Gly Arg Ala Pro Ile Leu Val Met Tyr Glu Thr Asn 180 185 190 WO 02/02641 PCT/US01/19110 -

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Tyr Gly Ser Ser Ser Gly 200 195

Asn Thr Ala Ser Leu Ile Ile Ser Gly Ala Gln Ala Glu Asp Glu Ala 210 215

Asp Tyr His Cys Asn Ser Arg Asp Ile Ala Ser Asp His Leu Ile Phe 235 . 230

Gly Glu Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1169

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1169

Gln Val Gln Leu Val Gln Ser Gly Pro Lys Val Lys Lys Leu Gly Ser 15 5 1.0

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Asn Phe Asn Ser Tyr 25

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 45 - 40

Gly Arg Ile Ile Pro Asn Val Gly Thr Ala Asn Tyr Ala Gln Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr 75 65

Leu Glu Val Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 95 85 .

Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Ala Glu Cys Phe 110 105

Gln Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 115

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val 135 130

Leu Thr Gln Pro Pro Ser Met Ser Ala Ala Pro Gly Gln Val Val Thr

145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn His Val Ser 165 170 175

Trp Tyr Arg Gln Phe Pro Gly Thr Ala Pro Lys Leu Ile Ile Tyr Glu 180 185 190

Asn Leu Lys Arg Ser Pro Gly Ile Pro Asp Arg Leu Ser Gly Ser Lys 195 200 205

Ser Gly Thr Ser Ala Thr Leu Asp Ile Thr Gly Leu Gln Thr Gly Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Ser Ser Leu Ser Gly Ala 225 $$ 230 $$ 235 $$ 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1170

<211> 250 <212> PRT

<213> Homo sapiens

Caiss nomo sapier

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu 1 10 15

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Ser Arg Tyr 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gly Trp Ile Ser Gly Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Asn Phe 50

Gln Gly Arg Ala Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr $65 70 75 80 $

Met Glu Leu Arg Gly Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Met Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Thr Gly Leu 100 \$105\$

Ala Phe Asp Met Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe \$165\$

Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn 180 185 190

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly
195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala 210 215 220

Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 240$

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1171

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1171

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 $$ 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe 20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Thr Thr Ser Gly Thr Gly Gly Ala Thr Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 75 80

Leu Arg Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90

Ala Lys Val Leu Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr Gly Met

Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Ala Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Arg Gly Gln Ser Ile Thr Ile 145 155 156

Ser Cys Thr Gly Thr Thr Gly Asp Val Gly Gly Tyr Asp Tyr Val Ser

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Gly 180 $$185\ \ \, 190\ \ \, 185$

Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Ala Ser Lys

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Phe Cys Ser Thr Tyr Ala Pro Pro Gly Ile Ile Met

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1172

<211> 251

<212> PRT

<213> Homo sapiens

SSI3> HOMO Sabrens

<400> 1172 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser	Val	Lys	Val 20	Ser	Сув	Lys	Ala	Ser 25	Gly	Tyr	Thr	Phe	Thr 30	Lys	Tyr
Thr	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Pro 45	Glu	Trp	Met,
Gly	Trp 50	Ile	Asn	Gly	Gly	Ser 55	Gly	Asp	Thr	Lys	Tyr 60	Ser	Arg	Lys	Phe
Gln 65	Gly	Arg	Val	Thr	Ile 70	Thr	Lys	Asp	Thr	Ser 75	Ala	Ser	Ala	Ala	Tyr 80
Met	Glu	Leu		Ser 85	Leu	Gly	Ser	Glu	Asp 90	Thr	Ala	Leu	Tyr	Tyr 95	Cys
Ala	Arg	Ala	Thr 100	Tyr	Asp	Pro	Leu	Thr 105	Gly	Tyr	Ser	Phe	Asp 110	Gly	Phe
Asp	Ile	Trp 115	Gly	Arg	Gly	Thr	Met 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gly
Gly	Ser 130	Gly	Gly	Gly	Gly	Ser 135	Gly	Gly	Gly	Gly	Ser 140	Gln	Ser	Val	Leu
Thr 145	Gln	Pro	Ala	Ser	Val 150	Ser	Gly	Ser	Pro	Gly 155	Gln	Ser	Ile	Thr	Ile 160
Ser	Cys	Thr	Gly	Thr 165	Ser	Ser	Asp	Val	Gly 170	Gly	Tyr	Asn	Tyr	Val 175	Ser
Trp	Tyr	Gln	Gln 180	His	Pro	Gly	Lys	Ala 185	Pro	Lys	Leu	Met	Ile 190	Tyr	Glu
Gly	Ser	Lys 195	Arg	Pro	Ser	Gly	Val 200	Ser	Asn	Arg	Phe	Ser 205	Gly	Ser	Lys
Ser	Gly 210	Asn	Thr	Ala	Ser	Leu 215	Thr	Ile	Ser	Gly	Leu 220	Gln	Ala	Glu	Asp
Glu 225	Ala	Asp	Tyr	Tyr	Cys 230	Ser	Ser	Tyr	Thr	Thr 235	Arg	Ser	Thr	Arg	Val 240
Phe	Gly	Gly	Gly		ГЛа		Thr	Val	Leu 250	Gly					

<213 <212	0> 1: L> 25 2> PI B> Ho	8 RT	sapie	ens											
)> 1: Val		Leu	Val 5	Glu	Ser	Gly	Gly	Ser 10	Leu	Val	Gln	Pro	Gly 15	Gly
ser	Leu	Arg	Leu 20	Ser	Сув	Ala	Ala	Ser 25	Gly	Phe	Thr	Phe	Ser 30	Ser	Tyr
Ala	Met	Ser 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Val
Gly	Phe 50	Ile	Arg	Ser	Lys	Ala 55	Tyr	Gly	Gly	Thr	Thr 60	Glu	Tyr	Ala	Ala
Ser 65	Val	Lys	Gly	Arg	Phe 70	Thr	Ile	Ser	Arg	Asp 75	Asp	Ser	Lys	Ser	Ile 80
Ala	Tyr	Leu	Gln	Met 85	Asn	Ser	Leu	ГÀЗ	Thr 90	Glu	Asp	Thr	Ala	Val 95	Tyr
Tyr	Cys	Thr	Arg 100	Asp	Phe	Gly	Tyr	Tyr 105	Asp	Ile	Leu	Thr	Gly 110	Tyr	Tyr
Ile	Gly	Ala 115	Phe	Tyr	Ala	Phe	Asp 120	Ile	Trp	Gly	Arg	Gly 125	Thr	Met	Val
Thr	Val 130	Ser	Ser	Gly	Gly	Gly 135	Gly	Ser	Gly	Gly	Gly 140	Gly	Ser	Gly	Gly
Gly 145	Gly	Ser	Gln	Ser	Val 150	Leu	Thr	Gln	Pro	Pro 155	Ser	Ala	Ser	Gly	Ser 160
Pro	Gly	Gln	Ser	Val 165	Thr	Ile	Ser	Сув	Thr 170	Gly	Thr	Ser	Ser	Asp 175	Val
Gly	Gly	Tyr	Asn 180	Tyr	Val	Ser	Trp	Tyr 185	Gln	Gln	His	Pro	Gly 190	Lys	Ala
Pro	Lys	Phe	Met	Ile	Tyr	Asp	Val 200	Ser	Lys	Arg	Pro	Ser	Gly	Val	Ser

1396

Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile 210 215 220

Ser Gly Val Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr 225 230 235

Thr Ser Ala Ser Thr Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val 245 250 255

Leu Gly

<210> 1174

<211> 250 <212> PRT

<213> Homo sapiens

<400> 1174

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30$

Ser Ala Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu 35 40 45

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala 50 55 60

Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn 65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val 85 90 95

Tyr Tyr Cys Ala Arg Gly Gly His Thr Cys Ile Ile Pro Thr Cys His 100 \$105\$

Met Gly Gly Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Ile Val

Leu Thr Gln Ser Pro Phe Ser Leu Ser Ala Ser Val Gly Asp Arg Val

145 150 155 160

Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn Trp 165 170 175

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ala Ala 180 185 190

Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser 195 200 205

Gly Thr Asn Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe 210 215 220

Ala Thr Tyr Tyr Cys Glu Glu Ser Tyr Ser Thr Pro Pro Trp Thr Phe 225 $$ 230 $$ 235 $$ 240

Gly Gln Gly Thr Lys Val Asp Ile Lys Arg . 250

<210> 1175

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1175

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu 1 5 10 15

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Ser Arg Tyr \$20\$

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ \, 40 \ \ \, 45$

Gly Trp Ile Ser Gly Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Asn Phe $_{\mbox{50}}$

Gln Gly Arg Ala Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr $65 \ 70 \ 75 \ 80$

Met Glu Leu Arg Gly Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Met Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Thr Gly Leu 100 105 110

Ala Phe Asp Met Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser Gly

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly His Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly
195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230235235

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1176

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1176

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 . 30 .

-Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met $35 \ \ 40 \ \ 45$

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60 .

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 70 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 105 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 155 150 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 Gly Gly Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 205 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 225 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1177 <211> 247 <212> PRT <213> Homo sapiens Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 10 1 5

Sel	: Leu	Arg	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Thr	Phe	Ser 30	Ser	Tyr
Ala	a Leu	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Val
Sei	Val 50	Ile	Tyr	Ser	Gly	Gly 55	Ser	Thr	Tyr	Tyr	Ala 60	Asp	Ser	Val	Lys
Gly 65	Arg	Phe	Thr	Ile	Ser 70	Arg	Asp	Asn	Ser	Lys 75	Asn	Thr	Leu	Tyr	Leu 80
Glı	ı Met	Asn	Ser	Leu 85	Arg	Ala	Glu	Asp	Thr 90	Ala	Val	Tyr	Tyr	Cys 95	Ala
Arg	, Ala	Thr	Gln 100	Asp	Ile	Leu	Thr	Gly 105	Tyr	Leu	Tyr	Ser	Gly 110	Met	Asp
Va:	. Trp	Gly 115	Lys	Gly	Thr	Leu	Val 120	Thr	Val	Ser	Ser	Gly 125	Gly	Gly	Gly
Sei	130	Gly	Gly	Gly	Ser	Gl <i>y</i> 135	Gly	Gly	Gly	Ser	Asp 140	Ile	Gln	Met	The
Gl: 145	ser	Pro	Ser	Thr	Leu 150	Ser	Ala	Ser	Ile	Gly 155	Asp	Arg	Val	Thr	Ile 160
Thi	Cys	Arg	Ala	Ser 165	Glu	Gly	Ile	Tyr	His 170	Trp	Leu	Ala	Trp	Tyr 175	Gln
Glr	. Lys	Pro	Gly 180	Lys	Ala	Pro	Lys	Leu 185	Leu	Ile	Tyr	Lys	Ala 190	ser	Ser
Let	Ala ,	Ser 195	Gly	Ala	Pro	Ser	Arg 200	Phe	Ser	Gly	Ser	Gly 205	Ser	Gly	Thr
Asp	210	Thr	Leu	Thr	Ile	Ser 215	Ser	Leu	Gln	Pro	Asp 220	Asp	Phe	Ala	Thr
Ty:	Tyr	Cys	Gln	Gln	Tyr 230	Ser	Asn	Tyr	Pro	Leu 235	Thr	Phe	Gly	Gly	Gly 240
Thi	Lys	Leu	Glu	Ile	Lys	Arq									

Thr Lys Leu Glu Ile Lys Arg 245

<210> 1178 <211> 248 <212> PRT <213> Homo sapiens <400> 1178 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe 55 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Glu His Tyr Asp Ile Leu Thr Gly Tyr Ser Leu Leu Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140 Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 Cys Gln Gly Asp Ser Leu Arg Gly Tyr Tyr Thr Asn Trp Phe Gln Gln 165 170 175

Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 200 205 195

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1179

<211> 250 <212> PRT

<213> Homo sapiens

<400> 1179

Glu Val Gln Leu Val Glu Thr Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Glu Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Tyr Ile Ser Ser Ser Gly Ser Thr Ile Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Āla Val Tyr Tyr Cys $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Thr Thr Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Val Tyr Tyr

Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 145 \$150\$

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe

165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn 180 185 190

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala 210 220

Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1180 <211> 253

<211> 253 <212> PRT

<213> Homo sapiens

<400> 1180

Gly Val Gln Leu Val Glu Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly 1 15 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Val Ser Ser Asn 20 25 30

His Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Ser Val Thr Tyr Ser Gly Gly Asn Thr Asn Tyr Ala Asp Ser Val Arg 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Val Gly Val Gly 100 105 110

Arg Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr $_{\rm 165}$ $_{\rm 175}$

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230225235

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1181

<211> 248 <212> PRT

<213> Homo sapiens .

<400> 1181

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe
50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \,\,$ $105 \,\,$ $110 \,\,$

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln 165 170 175

Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg \$180\$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 . 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1182

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1182

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

- Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60
- Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80
- Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95
- Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \,$ $105 \,$ $110 \,$
- Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125
- Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr 130 $$\rm 140$
- Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$
- Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln 175 \$175\$
- Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg $180\,$
- Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200
- Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr $^\circ$ 210 $^\circ$ 220
- Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230235235
- Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1183

<211> 256

<212> PRT

<213> Homo sapiens

<400> 1183

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ser Gly Gly

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35×10^{-10} 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Lys Asp Asp Arg Arg Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Arg Phe Gly Ser Phe Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val

Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly 145 150 155

Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn 165 170 175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu 180 185 190

Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe
195 200 205

Ser Gly Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu 210 215 220

Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser 225 230 235 240

Leu Ser Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly

<210> 1184

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1184

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Ala Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Asn Arg Tyr \$20\$

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 $^{\circ}$ 40 45

Gly Arg Ile Ile Pro Met Leu Gly Thr Ala Asn Tyr Ala Gln Asn Phe $50 \hspace{1.5cm} 60$

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Arg Thr Val Phe 65 70 75 80

Met Glu Leu Ile Ser Leu Arg Ser Glu Asp Ser Ala Met Tyr Tyr Cys $95 \hspace{1cm} 90 \hspace{1cm} 95$

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser 130 135

Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser 145 150 155 160

Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly 165 170 175

Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly

180 185 190

Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu 195 200 205

Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser 210 215 220

Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu 225 $$ 230 $$ 235 $$ 240

Thr Val Leu Gly

<210> 1185 <211> 251

<212> PRT <213> Homo sapiens

<400> 1185

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser $1 \hspace{1cm} 1 \hspace{1cm} 5 \hspace{1cm} 15$

Ser Val Lys Val Ser Cys Gln Thr Ser Gly Thr Thr Phe Arg His Ser

Ala Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Phe Glu Trp Leu $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly His Ile Ile Pro Val Phe Glu Thr Ala His Leu Ser Asp Lys Phe $50 \ \ 60$

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Val Tyr $65 70 75 80 $

Met Glu Leu Ser Ser Leu Arg Phe Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Val Ser Gly Tyr Asn Ser Gly Tyr Phe Glu Ser Tyr Asp Met. $100 \\ 105 \\ 110$

Asp val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1186 <211> 254 <212> PRT <213> Homo sapiens <400> 1186 Glm Val Glm Leu Glm Glm Trp Gly Gly Gly Val Val Glm Pro Gly Arg 10 Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 Glu Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 40 Ala Val Ile Ser Tyr Asp Glu Arg Ile Lys Asn Tyr Gly Asp Ser Val 55 Lys Gly Arg Phe Thr Gly Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 75 70

Leu Glu Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys $85 \ \ 90 \ \ 95 \ \ .$

Ala Thr Glu Val Arg Asn Tyr Asp Leu Leu Thr Arg Ser Tyr Leu Ala 100 105 Gly Pro Leu Asp Asn Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser 120 115 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln 135 Ser Val Leu Thr Gln Pro Ala Ser Ala Ser Gly Thr Pro Gly Gln Ser 155 150 Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 170 Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 185 Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 205 200 Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 220 Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 235 240 225

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1187 <211> 251 <212> PRT <213> Homo sapiens

 $<\!400>$ 1187 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met
35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe $_{50}$

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \\ 05 \\ 110$

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu $130\,$ $135\,$ $140\,$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1188

<211> 249

<212> PRT <213> Homo sapiens

<400> 1188 Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln

15

10 5 1 Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Thr Ser Asn Ser Val Ala Trp Asn Trp Leu Arg Gln Ser Pro Ser Arg Gly Leu Glu Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Gln Trp Tyr Ala Asn Tyr Ala 55 Glu Ser Val Arg Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn 65 Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val 85 - ; 90 Tyr Tyr Cys Ala Arg Ser Gly Glu Pro Cys Ile Thr Leu Ala Cys Asn 105 100

Leu Gly Gly Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly 120 115

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Asp Ile Gln 135

Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile Gly Asp Arg Val 145 150 155

Thr Ile Thr Cys Arg Ala Ser Glu Gly Ile Tyr His Trp Leu Ala Trp 170 165

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala 180 1.85

Ser Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly Ser 205 195 200

Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe 215 210

Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly 230 235 225

Gly Gly Thr Lys Leu Glu Ile Lys Arg 245

<210> 1189

<211> 256 <212> PRT

<213> Homo sapiens

<400> 1189

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu 35 40 45

Ala Thr Ile Ser Tyr Asp Gly Ser Asn Lys Asp Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr $_{65}$ 70 75

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Ala Ser Glu Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Leu 100 105 110

Ala Thr Gly Arg Asn Trp Phe Asp Pro Trp Gly Arg Gly Thr Thr Val \$115\$

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 130 135

Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu 145 150 155 160

Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr 165 170 175

Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val

Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser

195 200 205 .

Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln 210 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Ser 225 230 235 240

Thr His Arg Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly $245 \hspace{1cm} 250 \hspace{1cm} 250 \hspace{1cm}$

<210> 1190

<211> 255 <212> PRT

212> PRT

<213> Homo sapiens

 $<\!400>$ 1190 Gin Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 $_5$ 10 $_{15}$

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu 50 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Pro Ser Pro Tyr Tyr Asp Ile Leu Thr Gly Tyr Phe Leu $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Pro Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 130 135 140

Gln Pro Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln 145 $$150\$

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr 165 170 175

Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe 195 200 205

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu 210 220

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg 225 230 235 235

Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 255

<210> 1191

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1191

Gln Val Gln Arg Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala $20 \ 25 \ 30$

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$. \$40\$

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala 50 $$\rm 55$$

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Met 65 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr 85 90 95 $\stackrel{}{}_{-}$

Tyr Cys Thr Thr Glu Ile Asp Asp Ile Leu Thr Gly Tyr Tyr Met Asp 100 105 110

Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly 115 120 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr 130 135 Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145 150 Cvs Thr Glv Thr Ser Ser Asp Val Glv Glv Tyr Asn Tyr Val Ser Trp 170 165 Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly 185 190 Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 200 205 195 Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 220 215 Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 235 230 Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 . 250 <210> 1192 <211> 246 <212> PRT <213> Homo sapiens <400> 1192 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 20 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 40 35 Gly Trp Ile Ser Ala Tyr Gly Asn Thr Asn Tyr Ala Gln Lys Phe Gln

1418

55 60

Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met

Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Met Asn Tyr Asp Ile Leu Thr Gly Leu Val Asn Trp Phe Asp Pro

Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Glý Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp 130 140

Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln 145 150 150

Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro \$155\$

Gly Gln Ala Pro Val Leu Val Tie Tyr Gly Lys Asn Asn Arg Pro Ser 180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser

Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys 210 215 220

Ass Ser Arg Gly Ser Ser Gly Ass His Val Val Phe Gly Gly Gly Thr 225 - 230 235

Lys Leu Thr Val Leu Gly 245

<210> 1193

<211> 247 <212> PRT

<213> Homo sapiens

<400> 1193 Gln Val Thr Leu Lys Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Arg 1 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Gly Asp Tyr

20 25 30

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Gly Phe Ile Arg Ser Lys Ala Tyr Gly Gly Thr Thr Glu Tyr Ala Ala 50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr 65 70 75 80

Leu Tyr Leu Gln Met Thr Ser Leu Arg Ala Glu Asp Ser Ala Val Tyr 85 90 95

Tyr Cys Val Arg Arg Asp Ile Leu Thr Gly Phe Tyr Asp Ser Trp Gly

Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro 130 140

Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly 145 150 155 160

Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu 165 . 170 175

Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly
195 200 205

Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly 225 230 235

Thr Lys Leu Thr Val Leu Gly

<210> 1194 <211> 251 <212> PRT

<213> Homo sapiens

<400> 1194

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Arg Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Ser Arg Ser Phe 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
_ 35 40 45

Gly Trp Thr Asn Pro Asn Ser Gly Ala Thr Asn Tyr Ala Gln Lys Phe 50 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Arg Leu Thr Ser Asp Asp Thr Ala Ile Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115
120
125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130° 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 $$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 $$170\$

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 · 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp

210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1195

<211> 254 <212> PRT

<213> Homo sapiens

<400> 1195

Gly Val Gln Leu Val Glu Ser Gly Gly Asn Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Leu Gly Asn Tyr 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val 35 40 45

Ser Gly Phe Ser Gly Ile Gly Ser Thr Thr Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr $_{65}$ $$ 70 $$ 75 $$ 80

Leu Gln Met Asn Ser Leu Arg Gly Glu Asp Thr Ala Val Tyr Tyr Cys $$85\ ^{\circ}$$

Ala Arg Glu Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Val Gly Val 100 105 110

Gly Arg Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln
130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn $165 \\ 170 \\ 175$

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185

Ile Tvr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 200 195

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln . 215 210

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 . 250

<210> 1196

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1196

Glu Val Gln Leu Val Gln Ser Gly Gly Val Val Val Gln Pro Gly Gly 1 5 1.0 15

Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Phe Thr Phe Ser Ser Tyr 25 20

Gly Met His Trp Val Arq Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40

Ala Val Ile Ser Tyr Asp Glu Arg Ile Lys Asn Tyr Gly Asp Ser Val 55 . 60 50

Lys Gly Arg Phe Thr Gly Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 75 65 70

Leu Glu Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Thr Glu Val Arg Asn Tyr Asp Leu Leu Thr Arg Ser Tyr Leu Ala 105 110 100

Gly Pro Leu Asp Asn Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 150150155

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 $$185\$

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230230235

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1197

<211> 254 <212> PRT

<213> Homo sapiens

<400> 1197 -

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val $_{\rm 35}$

Ala Val Ile Ser Tyr Asp Glu Arg Ile Lys Asn Tyr Gly Asp Ser Val

Lys Gly Arg Phe Thr Gly Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 707075

Leu Glu Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 90

Ala Thr Glu Val Arg Asn Tyr Asp Leu Leu Thr Arg Ser Tyr Leu Ala 100 \$105\$

Gly Pro Leu Asp Asn Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 \$150\$

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met \$180\$

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 . 230 . 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 1198

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1198 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

35 40 45

Ala Asn Ile Ser Pro His Gly Asn Asp Asn Arg Tyr Val Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 . 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Ser Asp Ala Phe 100 \$105\$

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr

GIn Asp Pro Ala Val Ser Val Ala Leu Gly Gln Ala Val Arg Ile Thr 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln \$165\$

Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly \cdot 225 \cdot 230 \cdot 235 \cdot 240

Gly Thr Glu Leu Thr Val Leu Gly 245

<210> 1199

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1199 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1.5 5 10 Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Thr Phe Ser Arg Tyr 20 25 Ala Thr Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 Gly Gly Ile Ile Pro Leu Phe Arg Thr Thr Lys Phe Ala Gln Arg Leu 55 Gln Glv Arg Val Ser Ile Thr Ala Asp Glu Leu Thr Asn Thr Ala Phe 70 Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Gly Val Tyr Tyr Cys 85 Ala Thr Thr Glu Arg Phe Gly Ala Lys Asp Val Thr Ala Arg Trp Gly 105 100 Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly 120 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala 135 Val Leu Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Val Ile Asn Trp Tyr Gln Gln Leu Pro Arg Thr Ala Pro Lys Leu Leu Ile His 180 Thr Asn Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser 200

Lys Ser Gly Thr Ser Gly Thr Leu Ala Ile Ser Gly Leu Gln Ser Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Arg Leu Lys Ala

225 230 235 240

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 1200

<211> 253 <212> PRT

<213> Homo sapiens

<400> 1200

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Ala Val Ile Ser Tyr Asp Gly Ser Asn Glu Tyr Tyr Ala Gly Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Arg Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Glu Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Asn Phe Phe Asp 100 105 110

Tyr Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 \$120\$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu 130 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile 145 \$150\$

Ser Cys Ser Gly Ser Asn Ser Asn Ile Gly His Asn Tyr Ile Ser Trp 165 170 175

Tyr Gln His Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Phe Asp Thr $180\,$

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser

Gly Thr Ser Ala Thr Leu Ala Ile Thr Glu Leu Gln Thr Ala Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Thr Thr Leu Ser Ala Glu Asp 225 $$ 230 $$ 235 $$ 240

Val Leu Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1201

<211> 252 <212> PRT

<213> Homo sapiens

<400> 1201

Gln Leu Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asm Lys Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Lys Arg Gln Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Phe Asp 100 105 110

Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu 130 140

Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile 150

Ser Cys Thr Gly Ser Gly Ser Asn Ile Gly Ala Gly Tyr Asp Val His 170

Trp Tyr Gln His Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Phe Gly 185

Asn Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys 200 195

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Gly Glu Asp 210 215

Glu Ala Asp Tyr Tyr Cys Gln Ser Phe Asp Thr Ser Leu Gly Val Arg 235 230 225

Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Ser

<210> 1202

<211> 249 <212> PRT

<213> Homo sapiens

<400> 1202

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 3.5

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 55 50

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 90 85

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu 130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile 145 150 150 155

Ser Cys Ser Gly Ser Tyr Ser Asn Ile Gly Thr Asn Asp Val Phe Trp \$165\$ \$175\$

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Gln Leu Leu Ile Tyr Arg Asn 180 185 190

Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ala Ala Trp Asn Asp Arg Gln Ile Val Phe Gly 225 230235

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1203

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1203

Glu Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ser 1 $$ 5 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu $35 \ \ 40 \ \ \ 45$

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe

50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr
65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Äla Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser 115 \$120\$

Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr 130 135 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser 145 150 155 160

Cys Ser Gly Ser Ser Ser Asn Ile Arg Ser Lys Thr Val Asn Trp Tyr \$165\$ \$170\$

Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn Asn 180 185 190

Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly
195 200 205

Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala 210 215 220

Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Val Phe 225 \$230\$

Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1204

<211> 249

<212> PRT <213> Homo sapiens

- sage ----

Glun Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe Gln Gly Arq Val Thr Leu Thr Ala Asp Glu Leu Thr Arq Thr Ala Tyr 70 Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 90 95 Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Met Asn Val 100 1.05 Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Glv Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Asn Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 215 Tyr His Cys His Ser Arg Asp Ile Ser Gly Asp His Gln Ile Phe Gly 235 Gly Gly Thr Lys Leu Thr Val Leu Gly

245

<210> 1205 <211> 249

<211> 249 <212> PRT

<213> Homo sapiens

<400> 1205

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 . 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val

Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser 115 \$120\$

Thr Gln Asp Pro Ala Val Ser Val Pro Leu Gly Gln Thr Val Arg Ile 145 $$150\$

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln $_{165}$ $$ $$

Gln Lys Pro Gly Gln Ala Pro Arg Leu Val Ile Tyr Gly Lys Asp Asn 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200

Thr Ala Ser Leu Thr Ile Thr Gly Thr Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Gly Gly Asn His Val Val Phe Gly 225 230 235

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1206

<211> 247

<212> PRT <213> Homo sapiens

<400> 1206 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 $$ 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 7075$ 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110

Met Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu 130 135. 140

Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln Thr Ala Ser Ile 145 $$150\$

Ser Cys Ser Gly Asp Lys Leu Gly Asp Lys Tyr Ala Ser Trp Tyr Gln 165 170 175

Gln Lys Pro Gly Gln Ser Pro Ile Leu Ile Ile Phe Gln Asn Thr Arg 180 \$180\$

Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly Asn 195 200 205

Thr Ala Thr Leu Thr Ile Thr Glu Thr Gln Thr Met Asp Glu Ala Asp 210 215 220

Tyr Phe Cys Gln Ala Trp Asp Ser Ser Thr Gly Val Phe Gly Gly Gly 225 230 235 240

Thr Lys Val Thr Val Leu Gly 245

<210> 1207

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1207

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 $$ 5 $$ 10 $$ 15

Ser Val Arg Val Phe Cys Glu Ala Ser Gly Gly Lys Phe Ser Asn Tyr

Gly Arg Ile Ile Pro Val Leu Asp Ile Val Asp Tyr Ala Pro Lys Phe 50 55 60

Gln Gly Arg Leu Thr Ile Thr Ala Asp Lys Leu Thr Gly Thr Ile Phe 65 70 75 80

Met Glu Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Ile Tyr Tyr Cys 85 90 95

Ala Arg Glu Leu Gly His Arg Glu Gly Gly Tyr Trp Tyr Ser Pro Tyr 100 105 110

Asn Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser 130 140

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 $$ 150 $$ 155 $$. 160

Arg Ile Thr Cys Arg Gly Asp Pro Leu Arg Asn Ser Tyr Ala Ser Trp \$165\$ 170 175

Tyr Gln Gln Arg Pro Gly Gln Ala Pro Leu Leu Val His Phe Gly Lys 180 185 190

Asp Asn Arg Pro Ser Arg Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser 195 200 205

Gly Asp Thr Ala Ser Leu Ile Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 $\,$ 215 $\,$ 220 $\,$

Ala Asp Tyr Tyr Cys Ser Ser Arg Asp Ser Ser Gly Asn His Tyr Val 225 230 235 240

Phe Gly Ala Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1208

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1208

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr

75

80

65 70 /5

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys \$95\$

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val 100 105

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser 115 120 120

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu Thr 130 140

Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser 145 150 150 155 160

Cys Thr Gly Gly Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His Trp \$165\$ \$170\$ \$170\$

Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn 180 185

Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser

Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gin Ala Glu Asp Glu 210 220

Ala Asp Tyr Tyr Cys Gin Ser Tyr Asp Ser Ser Leu Asn Gly Pro Val 225 235 240

val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1209

<211> 256 <212> PRT

<212> PRT <213> Homo sapiens

<400> 1209 Glu Val Glu Thr Gly Gly Gly Leu Val Lys Pro Gly Gly Glu Val Gln Leu Val Glu Thr Gly Gly 10 $^{\circ}$ 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gly Tyr

Ser Met Asn Trp Val Arg Leu Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Ser Ile Arg Ser Arg Ser Gly Gly Thr Tyr Ile Tyr Tyr Ala Asp
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser 65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr $85 \ \ \, 90 \ \ \, 95$

Tyr Cys Ala Arg Asp Pro Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr 100 105 110

Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val 115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly 130 135 140

Ser Ala Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro 145 \$150\$ 150 \$155\$

Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly $165 \\ 170 \\ 175$

Lys Leu Ile Ile His Asp Val Ser His Arg Pro Ser Gly Val Ser Asn 195 \$200\$

Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser 210 $$\rm 220$$

Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Phe Thr 225 \$230\$ 235 240

Gly Ser Ile Tyr Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 1210

<211> 244 <212> PRT <213> Homo sapiens

<400> 1210

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Tyr Thr Phe Arg Glu Tyr $$ 20 $$ 25 $$ 30

Gly Ile Ile Trp Ala Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $_{\rm 35}$ $_{\rm 40}$. $_{\rm 45}$

Gly Trp Ile Ser Gly Gln Asn Gly Lys Thr Asn Leu Ala Gln Arg Phe $_{\rm 50}$ $_{\rm 60}$

Gln Gly Arg Val Thr Ile Thr Thr Asp Thr Leu Thr Ser Thr Ala Phe 65 70 75 80

Met Glu Leu Thr Asn Leu Arg Val Asp Asp Thr Ala Met Tyr Tyr Cys \$85\$

Ala Ala Ser Gly Pro Gly Trp Phe Asp Pro Trp Gly Lys Gly Thr Leu $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly 115 120 125

Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser . 130 $$\rm 135$

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser 145 150 155 160

Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr 165 $$170\ \ \,]$ 175 .

Ala Pro Lys Leu Leu Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val \$180\$

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala

Ile Ser Gly Leu Gln Ser Glu Asp Gly Ala Asp Tyr Tyr Cys Ala Ala 210 215 220

Trp Asp Asp Ser Leu Asn Gly Tyr Val Phe Gly Thr Gly Thr Lys Leu 225 230 235 240

Thr Val Leu Gly

<210> 1211

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1211

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys arg Ala Ser Gly Gly Ser Phe Asn His Ala $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln $_{50}$ $_{60}\,_{\odot}$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp \$100\$

Met Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 . 120 . 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu 130 \$135\$

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp \$165\$.

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn 185 Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200 Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu 215 Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly Trp Val 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1212 <211> 250 <212> PRT <213> Homo sapiens <400> 1212 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Glu Pro Gly Ser 5 10 Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 70 75

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 110

Met Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu 130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile 145 \$150\$

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Tyr Val Tyr Trp 165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Val Leu Ile Tyr Ser Asn 180 185 190

Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Phe Lys Ser 195 200 205

Gly Thr Ser Ala Ser Leu Val Ile Ser Gly Leu Arg Ser Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Arg Leu Ser Gly Leu Phe 225 $$ 230 $$ 235 $$ 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 $^{\prime}$ 250

<210> 1213

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1213

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys

. 85 90 95

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser

Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu Thr 130 \$135\$

Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser 145 \$150\$

Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His Trp 165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn 180 $$180\,$

Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 \$200\$

Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu 210 \$215\$

Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Gly Trp Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1214

<211> 244

<212> PRT <213> Homo sapiens

<400> 1214

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Tyr Thr Phe Arg Glu Tyr 20 25 30

Gly Ile Ile Trp Ala Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ \, 40 \ \ \, 45$

Gly Trp Ile Ile Gly His Asn Gly Met Thr Asn Leu Ala Gln Arg Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Thr Asp Thr Leu Thr Ser Thr Ala Phe 65 70 75 80

Met Glu Leu Thr Asn Leu Arg Val Asp Asp Thr Ala Met Tyr Tyr Cys $85 \hspace{0.25in} 90 \hspace{0.25in} 95$

Ala Ala Ser Gly Pro Gly Trp Phe Asp Pro Trp Gly Lys Gly Thr Leu $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly 115 120 125

Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser 130 135 140

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser 145 \$150\$

Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr 165 \$170\$

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala 195 200 205

Ile Ser Gly Leu Gl
n Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala 210 215 220

Trp Asp Asp Ser Leu Asn Gly Tyr Val Phe Gly Ala Gly Thr Lys Leu 225 230 235

Thr Val Leu Gly

<210> 1215 <211> 249

<212> PRT

<213> Homo sapiens

<400> 1215 Glm Val Glm Leu Val Glm Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}$

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe
50 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr $65 \cdot 70$ 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Ser Arg Tyr Gly Asp'Pro Phe Tyr Tyr Tyr Tyr Tyr Met As
n Val 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 150 155 160

Thr Cys Arg Gly Asp Ser Leu Ser Arg Asn Phe Ala Asn Trp Tyr Gln 165 170 175

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Ile Tyr Gly Asn Asn Asn 180 185 190

Arg Pro Pro Gly Val Ser Asp Arg Leu Ser Gly Ser Lys Thr Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Lys Ser Ser Ala Asn His Trp Leu Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1216

<211> 251

<212> PRT <213> Homo sapiens

<400> 1216

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala \$20\$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95 $^{\circ}$

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \,$ $105 \,$ $110 \,$

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu 130 \$135\$

Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile 145 $$150\ {\rm L}55\ {\rm L}55$

Ser Cys Thr Gly Ser Ser Ser Asn Val Gly Gly Asn Val Val Asn Trp 165 170 175

Tyr Gln Gln Val Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asn Thr 180 $$185\$

Asn Gln Arg Pro Ala Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 \$200\$

Gly Ala Ala Ala Ser Leu Ala Ile Arg Gly Leu Gln Ser Gln Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Glu Ala Trp Asp Asp Ser Leu Tyr Gly His Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1217 <211> 251

<211> 231

<213> Homo sapiens

<400> 1213

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr
20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr $_{65}$ $^{\rm 70}$ $^{\rm 75}$

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser

Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu Thr 130 135 140

Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser 145 150 155 160

Cys Thr Gly Thr Ser Ser Asn Ile Gly Ala Asp Tyr Ala Val His Trp 165 170 175

Tyr Gln Gln Val Pro Gly Val Ala Pro Arg Leu Leu Ile Tyr Gly Asn 180 185 190

Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Ala Ser Lys Ser 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Pro Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Gln Thr Tyr Asp Ser Arg Leu Ser Gly Ser Val 225 230 235 240

-Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1218

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1218

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly ' 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 $\,$ 55 $\,$ 60 $\,$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \ 70 \ 75 \ 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp

100 105 110

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Tyr Glu 130 135 140

Leu Thr His Ala Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150 155 160

Ile Cys Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Ile Tyr \$165\$

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Gly Arg

Tyr Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys \$195\$

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Ser Leu Ser Gly Trp 225 \$230\$

Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Ser 245 250

<210> 1219

<211> 251

<212> PRT <213> Homo sapiens

-400× 1210

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 . . .

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 . 105 . 110 Met Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Thr Thr 130 135 Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala 150 155 Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala 165 . 170 Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly 200 Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp 215 Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro Leu Leu Thr 230 235 Phe Gly Gly Gly Thr Arg Leu Glu Ile Lys Arg 245 <210> 1220 <211> 251 <212> PRT <213> Homo sapiens <400> 1220 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asm His Ala $20 \\ 25 \\ 30$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 \$50\$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 70$. $ 75$ 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp \$100\$

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu 130 140

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile 145 150 150 155

Ser Cys Ser Gly Arg Asp Ser Asn Ile Gly Ser Asn Ser Val Tyr Trp \$165\$

Thr Leu Arg Pro Ser Gly Val Pro Asp Arg Leu Ser Gly Ser Ser Ser 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Asp Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Val Gly Ser Trp Val 225 $$ 230 $$ 235 $$ 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1221 <211> 252 <212> PRT <213> Homo sapiens Gln Val Gln Leu Val Gln Ser Glv Ala Glu Val Lys Lys Pro Glv Ser 5 1.0 15 Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95 Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125 Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu 130 135 Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile 150 155 Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Ser Asp Val His . 165 170 ... 175 Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Val Ile Tyr Val 185 Asn Asn Asn Arg Pro Ser Gly Val Pro Gly Arg Phe Ser Gly Ser Lys 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp 215 220 Glu Ala Asp Tyr Tyr Cys Gln Ser Phe Asp Ser Ser Leu Ser Gly Phe 230 235 Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly 245 <210> 1222 <211> 250 <212> PRT <213> Homo sapiens <400> 1222 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 10 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 40 Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser

Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu Thr 130 135 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Thr 145 150 155 160

Cys Ser Gly Ser Arg Ser Asn Ile Gly Lys Asn Tyr Val Ser Trp Tyr 165 170 175

Gln Gln Phe Pro Gly Thr Ala Pro Lys Leu Leu Met Tyr Arg Asn Asp 180 185 190

Gln Arg Pro Ser Gly Val Pro Asp Arg Ile Ser Gly Ser Lys Ser Gly 195 200 205

Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Asp Thr 210 215 220

Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Ser Leu Asn Gly Leu Val Phe 225 230 235 240

Gly Gly Gly Thr Lys Val Thr Val Leu Gly $245 \,$

<210> 1223

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1223

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Val Val Lys Pro Ser Glu 1 $$ 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Phe Ile Ser Ser Arg \$20\$

Thr Ser Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu 35 40 45

Trp Ile Gly Asn Ile Tyr Tyr Thr Gly Lys Thr Tyr Tyr Ser Pro Ser 50 60

Leu Lys Ser Arg Val Thr Ile Ser Ala Asp Thr Ser Lys Asn Gln Leu $_{65}$ $$ 70 $$ 75 $$ 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr 85 90 95

Cys Ala Arg Ala Gly Tyr Asp Leu Leu Thr Gly Tyr Pro Phe Tyr Phe $100 \,$ $105 \,$ $110 \,$

Asp Ser Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly

115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val 130 135 140

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 \$150\$

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn 165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Met Tyr Leu 180 185 190

Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Leu Thr Trp Asp Asp Ser Leu Asn Gly Pro 225 230 235

Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1224

<211> 251

<212> PRT ·

<213> Homo sapiens

<400> 1224

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala $20\,$

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \ 70 \ 75 \ 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1cm} 105 \hspace{1cm} 110$

Met Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu 130 $$^{\circ}$$ 140

The Gln Pro Pro Ser Ala Ser Gly The Pro Gly Gln Arg Val The Ile 145 $$150\,$

Ser Cys Ser Gly Ser Arg Ser Asn Ile Gly Ser Asn Pro Val Tyr Trp 165 170 175

Tyr Gln Gln Phe Pro Gly Met Ala Pro Lys Leu Leu Leu Tyr Ala Asn 180 $$180\,$

Asn Gln Arg Pro Ser Glu Leu Pro Asp Arg Phe Ser Gly Thr Lys Ser 195 200205

Gly Thr Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp Glu $210 \\ 215 \\ 220$

Ala Asp Tyr Tyr Cys Ala Val Trp Asp Asp Ser Leu Asp Gly Ala Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210 > 1225 <211 > 251

<211> 251 <212> PRT

<213 > Homo sapiens

<400> 1225

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu 40

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val 100

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser 115

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr 130

Gln Pro Pro Ser Leu Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser 145

Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His Trp \$165\$. \$170\$.

Tyr Gln Gln Leu Pro Gly Thr Thr Pro Lys Leu Leu Ile Tyr Gly Asn 180 185 190

Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser

Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu 210 215 . 220

· Ala Asp Tyr Tyr Cys Gln Ser Phe Asp Ser Ser Leu Ser Gly Lys Val 225 230 235 240

Phe Gly Gly Thr Lys Val Thr Val Leu Gly

<210> 1226 <211> 254

<212> PRT <213> Homo sapiens

<400> 1226

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 5 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 2025

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 . 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 707575$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 ... 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 \$120\$. \$125\$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu 130 135 140

Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Ser Val Thr Ile 145 \$150\$

Ser Cys Thr Gly Gly Gly Ser Asn Leu Gly Ala Gly Phe Asp Val His \$165\$

Trp Tyr Gln His Leu Pro Gly Ala Ala Pro Lys Leu Ile Ile Tyr Asp \$180\$

Asn Arg Asn Arg Pro Ser Gly Val Pro Ala Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Pro Glu Asp 210 215 220

Glu Gly Asp Tyr Tyr Cys Gln Ser Tyr Asp Gly Thr Ser Arg Ser Gly 225 230 Ser Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1227 <211> 253 <212> PRT <213> Homo sapiens <400> 1227 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Pro Phe Asn His Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly Gly IIe Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp 100 105 Met Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val 130 135 140 Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150 155

1460

170 175

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Thr

Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Arg

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Gln Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Ser Leu Asn Gly Pro $225 \\ 230 \\ 235$

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1228

<211> 250

<212> PRT <213> Homo sapiens

<400> 1228

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr \$20\$

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45 \hspace{1.5cm}$

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe 50 60 .

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser

Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Pro Val Leu Thr

130 135 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser 145 150 155 160

Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr 165 170 175

Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn Asn $180 \,$ $\,$ 185 $\,$

Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly 195 200 205

Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala 210 215 220

Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Val Tyr Val Phe 225 230 235 240

Gly Thr Gly Thr Lys Val Thr Val Leu Gly 245

<210> 1229

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1229

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 5 $$. 10 $$ 15,

Pro Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Thr Arg Tyr 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 . 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

Ala Arg Asp Asn Tyr Asp Ile Leu Thr Gly Tyr Ser Arg Arg Phe Asp

Pro Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu 130 \$135\$

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile 145 150150150150

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Ser Trp \$165\$ \$170\$. \$175\$

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Thr Asn 180 185 190

Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Gly Leu Asn Gly Trp Val $225 \\ 230 \\ 235 \\ 240$

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1230

<211> 256

<212> PRT

<213> Homo sapiens

<400> 1230

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

WO 02/02641 PCT/US01/19110 ~ ----------

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $_{65}$ $$ 70 $$ 75 $$ 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu 130 135 140

Thr Gln Pro Ser Ser Leu Ser Ala Ser Pro Gly Ala Ser Ala Ser Leu 145 $$ 150 $$ 155 $$ 160

Thr Cys Thr Leu Arg Ser Gly Ile Asn Val Gly Thr Asn Thr Ile Tyr 165 $^{\circ}$ 170 $^{\circ}$ 175

Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Gln Tyr Leu Leu Lys Tyr 180 185 190

Lys Ser Asp Ser Asp Lys His Gln Gly Ser Gly Val Pro Ser Arg Phe \$195\$

Ser Gly Ser Lys Asp Ala Ser Ala Asn Ala Gly Val Leu Leu Ile Ser 210 220

Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Met Ile Trp His 225 $$ 230 $$ 235 $$ 240

Ser Ser Ala Ser Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250 255

<210> 1231

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1231

Gln 1	Val	Gln	Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser
Ser	Val	Lys	Val 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Gly	Thr	Phe	Ser 30	Ser	Tyr
Ala	Phe	Asn 35	Trp	Val	Arg	Arg	Ala 40	Pro	Gly	Gln	Gly	Leu 45	Glu	Trp	Leu
Gly	Ser 50	Ile	Val	Pro	Val	Phe 55	Asn	Thr	Lys	Thr	Phe 60	Ala	Arg	Lys	Phe
Gln 65	Gly	Arg	Val	Thr	Leu 70	Thr	Ala	Asp	Glu	Leu 75	Thr	Arg	Thr	Ala	Tyr 80
Leu	Glu	Leu	Ser	Asn 85	Leu	Arg	Ser	Asp	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Ser	Arg	Tyr 100	Gly	Asp	Pro	Phe	Tyr 105	Tyr	Tyr	Tyr	Tyr	Met 110	Asn	Val
Trp	Gly	Gln 115	Gly	Thr	Leu	Val	Thr 120	Val	Ser	Ser	Gly	Gly 125	Gly	Gly	Ser
Gly	Gly 130	Gly	Gly	Ser	Gly	Gly 135	Gly	Gly	Ser	Ala	Gln 140	Ala	Val	Leu	Thr
Gln 145	Pro	Ser	Ser	Val	Ser 150	Gly	Ala	Pro	Gly	Gln 155	Arg	Val	Thr	Ile	Ser 160
Cys	Thr	Gly	Ser	Ser 165	Ser	Ser	Ile	Gly	Ala 170	Gly	Tyr	Asp	Val	Asn 175	Trp
Tyr	Gln	His	Leu 180	Pro	Gly	Thr	Ala	Pro 185	Lys	Leu	Leu	Ile	Tyr 190	Gly	Asn
Asn	Asn	Arg 195	Pro	Ser	Gly	Val	Pro 200	Asp	Arg	Phe	Ser	Gly 205	Ser	Lys	Ser
Gly	Thr 210	Ser	Ala	Ser	Leu	Ala 215	Ile	Thr	Gly	Leu	Gln 220	Ala	Glu	Asp	Glu
Gly 225	Asp	Tyr	Tyr	Cys	Gln 230	Ser	Tyr	Asp	Arg	Gly 235	Leu	Ser	Gly	Tyr	Val 240

Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1232 <211> 251

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1232

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Pro Phe Asn His Ala

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp \$100\$

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Ser Glu 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Lys 145 \$150\$

Ile Thr Cys Gln Gly Asp Arg Leu Arg Arg Phe Tyr Ala Ser Trp Tyr \$165\$ \$170\$ \$175\$

Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Leu Ile Tyr Gly Lys Asn 180 185 190

Ser Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Thr Ser Gly 195 200 205

Ala Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala 210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Ser Leu His Ser Val 225 230 235 240

Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly

<210> 1233

<211> 255

<212> PRT <213> Homo sapiens

<400> 1233

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly

Ser Leu Arg Leu Ser Cys Val Gly Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met 35 40 45

Ala Val Ile Ser Ser Asp Gly Thr Lys Arg Tyr Tyr Ala Asp Ser Val $50 \\ 60$

Gln Gly Arg Leu Thr Ile Ser Arg Asp Asn Phe Val Lys Thr Leu Ser 65 70 75

Leu Glu Met His Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

- Ala Lys Asp Arg Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Phe 100 105 110

His His Gly Val Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser 115 \$120\$

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 130 140

Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly

145 150 155 : 160

His Ser Val Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Ser $165 \,$ $170 \,$ $175 \,$

Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys 180 $$185\$

Leu Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg 195 200 205

Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly 210 215 220

Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gly Ser Tyr Val Gly 225 230 235 240

Pro Asn Met Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 255

<210> 1234

<211> 258

<212> PRT <213> Homo sapiens

<400> 1234

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 10 15

Thr Leu Ser Leu Thr Cys Asp Ile Ser Gly Asp Ser Val Ser Ser Asn $20 \\ 25 \\ 30$

Ser Ala Ala Trp Asn Trp Ile Arg Gln Ala Pro Ser Arg Gly Leu Glu

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Thr Asp Tyr Ala 50 60

Glu Ser Val Lys Ser Arg Leu Ala Ile Asn Pro Asp Thr Ser Lys Asn 65 70 75 80

Gln Phe Ser Leu Gln Leu Ser Ser Val Thr Pro Glu Asp Thr Ala Val

Tyr Tyr Cys Ala Arg Ala Thr Lys Ser Tyr Asp Ile Leu Thr Arg Met 100 105 110

Tyr Tyr Tyr His Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val 115 $$120\$

Ser Ala Leu Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser 145 \$150\$

Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Ser Ile \$165\$

Asp Ser Asn Tyr Val Gln Trp Tyr Arg Gln Arg Pro Gly Ser Ser Pro $180 \\ 180 \\ 185 \\ 190$

Thr Thr Val Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val Pro Asp \$195\$

Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Asn Ser Ala Ser Leu Thr 210 $$\rm 220$$

Ile Ser Gly Leu Thr Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser 225 230230235

Tyr Asp Ala Arg Asn Gln Val Phe Gly Gly Gly Thr Gln Leu Thr Val 245.

Leu Ser

<210> 1235 <211> 253

<211> 253 <212> PRT

<213> Homo sapiens

<400> 1235

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 . 15

Pro Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Thr Arg Tyr 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Asn Tyr Asp Ile Leu Thr Gly Tyr Ser Arg Arg Phe Asp \$100\$ \$105 \$110

Pro Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu 130 140

Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile 145 \$150\$

Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp. Val His \$165\$

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly $180 \,$ $185 \,$ $190 \,$

Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Gly Ser 225 230235 240

Tyr Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly . 245 250

<210> 1236

<211> 252

<212> PRT <213> Homo sapiens

<400> 1236

Glu 1	Val	Gln	Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser
Ser	Val	Lys	Val 20	Ser	Cys	Arg	Ala	Ser 25	Gly	Gly	Ser	Phe	Asn 30	His	Ala
Ile	Ser	Trp 35	Val	Arg	Gln	Ala	Pro 40	Gly	Arg	Gly	Leu	Glu 45	Trp	Met	Gly
Gly	Ile 50	Leu	Pro	Met	Tyr	Gly 55	Thr	Ala	Asn	Tyr	Ala 60	Gln	Lys	Phe	Gln
Gly 65	Arg	Val	Thr	Ile	Thr 70	Ala	Asp	Lys	Leu	Thr 75		Thr	Val	Tyr	Met 80
Asp	Leu	Ser	Arg	Leu 85	Arg	Tyr	Glu	Asp	Thr 90	Ala	Val	Tyr	Tyr	Cys 95	Ala
Arg	Glu	Leu	Gly 100	Leu	Ser	Ile	Val	Gly 105	Ala	Thr	Thr	Gly	Ala 110	Leu	Asp
Met	Trp	Gly 115	Arg	Gly	Thr	Met	Val 120	Thr	Val	Ser	Ser	Gly 125	Gly	Gly	Gly
Ser	Gly 130	Gly	Gly	Gly	Ser	Gly 135	Gly	Gly	Gly	Ser	Ala 140	Leu	Ser	Tyr	Val
Leu 145	Thr	Gln	Pro	Pro	Ser 150	Ala	Ser	Gly	Thr	Pro 155	Gly	Gln	Arg	Val	Thr 160
Ile	Ser	Cys	Ser	Gly 165	Ser	Ser	Ser	Asn	Ile 170	Gly	Asp	Asn	Ser	Val 175	Ser
Trp	Tyr	Gln	Gln 180	Val	Pro	Gly	Leu	Ala 185	Pro	Lys	Leu	Leu	Ile 190	Tyr	Arg
Asn	Asn	Gln 195	Arg	Pro	Ser	Gly	Val 200	Pro	Asp	Arg	Phe	Ser 205	Gly	Ser	Lys
Ser	Gly 210	Thr	Ser	Ala	Ser	Leu 215	Ala	Ile	Ser	Gly	Leu 220	Arg	Ser	Glu	Asp
Glu 225	Val	Asp	Tyr	Tyr	Cys 230	Ala	Thr	Trp	Asp	Asp 235	Ser	Leu	Ser	Gly	Pro 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1237

<211> 248 <212> PRT

<213> Homo sapiens

<400> 1237

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His $20 \ \ 25 \ \ 30$

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe
50 60

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly 100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro 130 135 140

Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr 145 150 155 160

Gly Ser Ser Ser Lys Ile Gly Ala Asn Tyr Asp Val Gln Trp Tyr Gln
165 170 175

Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn Asn Asn 180 185 . 190

Arg Pro Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly Thr

Ser Ala Ser Leu Val Ile Thr Gly Leu Gln Ser Glu Asp Glu Ala Asp 210 215 220

Gly Thr Lys Val Thr Val Leu Gly

<210> 1238

<211> 251

<212> PRT <213> Homo sapiens

<400> 1238

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Ser Ser His

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Trp Ser Ser Ala His Asp Asp Asn Thr Lys Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Ala Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Pro Tyr Tyr Asp Pro Leu Thr Ala Tyr Thr Phe Gln Tyr Phe 100 $$105\$

Gly Asn Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Ala Leu Glu Thr 130 140

Thr Leu Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly Glu Arg

145 150 155 160

Val Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn Leu Ala 170 165

Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly 185

Ala Ser Thr Arg Phe Thr Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly 200

Ser Gly Thr Asp Phe Ser Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp 215

Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Pro Pro Ile Thr 225 230 235

Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg 245

<210> 1239 <211> 258

<212> PRT

<213> Homo sapiens

<400> 1239 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 10

Ser Val Lvs Val Ser Cvs Lvs Ala Ser Gly Gly Ala Leu Ser Ser Asp 20 25

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40

Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe 55 . 60

Gln Glv Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr 100 105

Tyr His Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Met Val Thr

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly 130 135

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala 145 \$150\$

Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Val

Lys Leu Met Tyr Glu Asp Glu Lys Arg Pro Ser Glu Ile Pro Asp 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Ala Ile Thr 210 $\,$ 215 $\,$ 220 $\,$

Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp 225 $$ 230 $$ 235 $$ 240

As Ser Leu Ser Ala Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val 245 255

Leu Glv

<210> 1240

<211> 257

<211> 257

<213> Homo sapiens

<400> 1240

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 \$40\$

Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe 50 55 Gln Gly Arq Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 70 Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr 105 Tyr His Tyr Tyr Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val 115 120 Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly 130 135 140 Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro 145 150 155 Gly Gln Arg Val Thr Ile Ala Cys Ser Gly Ser Ser Ser Asn Ile Gly 170 Ile Asn Tyr Val Tyr Trp Tyr Gln Gln Leu Pro Gly Met Ala Pro Lys 180 185 Leu Leu Ile Ser Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg 195 . 200 Phe Ser Gly Ser Lys Ser Gly Thr Thr Ala Ser Leu Ala Ile Ser Gly 210 215 Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp 235 225 230 Asn Leu Ser Gly Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu 245 250

Gly

<210> 1241 <211> 246

<212> PRT <213> Homo sapiens

<400> 1241

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Ile Lys Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Ala Asp Ile Leu Asn Thr Ala 20 25 30

Trp Val Asn Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Gly Arg Ile Lys Pro Lys Ala Gln Gly Gly Thr Thr Asp Tyr Ala Thr 50 55 60

Pro Val Lys Gly Arg Phe Thr Leu Ser Arg Asp Glu Leu Thr Asn Thr 65 70 75 80

Leu Phe Leu His Met Ser Ser Leu Arg Thr Asp Asp Ala Ala Val Tyr 85 90 95

Tyr Cys Ser Ala Gly Leu Gly His Thr Asp Ser Asp Ser Trp Gly Gln $$100\ ^{\circ}$$

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Ser Ala Gln Ser Ala Leu Thr Gln Pro Ala 130 \$135\$

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly 145 150150155

Thr Ser Asn Asp Ile Asp Ser His Asn Tyr Val Ser Trp Tyr Gln Gln 165 \$170\$

Tyr Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Val Ser Ser Arg 180 \$185\$

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Glu Tyr \$210\$ \$220\$

Tyr Cys Ser Ser Tyr Ser Asn Asn Asp Lys Met Phe Gly Gly Thr 225 230 235 240 Lys Val Thr Val Leu Gly 245 <210> 1242 <211> 253 <212> PRT <213> Homo sapiens <400> 1242 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 10 Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly. Thr Phe Arg Thr His 20 25 Ala Phe His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 40 Gly Gly Ile Ile Pro Lys Phe Gly Thr Pro Asn Tyr Ala Gln-Lys Phe 55 Gln Asp Arg Val Thr Ile Ile Ala Asp Glu Leu Thr Ser Thr Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys 85 / Ala Ile Ala Lys Gly Tyr Tyr Tyr Asp Ser Ser Gly Ala Ser Asp Val 1.00 105 110 Phe Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 120 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala 135 140 130 Val Leu Thr Gln Pro Ser Ser Val Ser Ala Ala Pro Gly Gln Gln Val 145 150 155

Ser Ile Ser Cys Ser Gly Thr Ser Ser Asn Ile Gly Lys Asn Tyr Val

Tyr Trp Tyr Gln His Leu Pro Gly Ala Ala Pro Lys Phe Leu Ile Tyr

Asp Asn Lys Arg Pro Ser Gly Ile Pro Pro Arg Phe Ser Ala Ser

Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Pro Gly 210 220

Asp Glu Gly Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Ala Thr 225 230 235 240

Val Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1243

<211> 258

<212> PRT

<213> Homo sapiens

<400> 1243

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 $$40\$

Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr \$100\$ 105 110

Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly

130 135 140

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr 145 150 155 160

Pro Gly Gln Arg Val Leu Val Ser Cys Ser Gly Ser Thr Ser Asn Ile 165 - 170 175

Gly Thr Asn Thr Val Asp Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro 180 195

Lys Leu Leu Ile Tyr Arg Asp Ser Gln Arg Pro Ser Gly Val Pro Asp

Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210 215

Gly Leu Gln Ser Glu Asp Glu Ala Val Tyr Tyr Cys Ala Thr Trp Asp 225 230230235

Asp Ser Arg Gly Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val \$245\$

Leu Gly

<210> 1244 <211> 260

<212> PRT

<213> Homo sapiens

<400> 1244

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Ser Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Leu Ile Asp Tyr \$20\$

Ser Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val

Gly Gly Thr Val Pro Leu Ala Asn Thr Ala Asn Tyr Ala Gln Lys Phe $50 \,\,$ $\,\,$ 60

Arg Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys . 85 90 95 Ala Lys Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser 100 105 110 Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Met Val Thr 115 120 125 Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 135 140 Gly Ser Ala Leu Ser Tyr Val Leu Thr Gln Pro Pro Ser Ala Ser Gly 145 150 155 Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Arg Ser Ser Asn 165 170 175 Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln His Leu Pro Gly Thr Ala 180 185 190 Pro Lvs Leu Leu Ile His Ser Asn Asn Gln Arg Pro Ser Glv Val Pro 195 200 205 Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile 210 215 220 Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ala Trp 235 Asp Asp Ser Leu Asn Glv His Val Val Phe Glv Glv Glv Thr Lvs Leu 250 Thr Val Leu Gly 260 <210> 1245 <211> 258 <212> PRT <213> Homo sapiens <400> 1245 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser

Ser Val Arg Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Gln \$20\$

Ser Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

. Gly Gly Thr Ile Pro Leu Ala Asn Thr Ala Asn Tyr Ala Gln Lys Phe 50 60

Arg Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Val Phe $_{65}$ $$ 70 $$ 75 $$ 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys 85 90 95

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135 140

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Lys Ala 145 $$ 150 $$ 155 $$ 160

Leu Arg Gln Ser Ala Thr Leu Thr Cys Thr Gly Asn Ser Asn Asn Val 165 170 175

Gly Asn Glu Gly Ala Val Trp Leu Gln Gln His Gln Gly Gln Pro Pro 180 \$185\$

Lys Leu Leu Ile Asp Arg Lys Asn Asn Arg Pro Ser Gly Ile Ser Glu 195 200 205

Arg Phe Ser Ala Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser 210 215 220

Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp 225 230230235

Ser Gly Leu Ser Val Trp Leu Phe Gly Gly Gly Thr Lys Val Thr Val \$250\$

Leu Gly

<210> 1246

<211> 248 <212> PRT

<213> Homo sapiens

<400> 1246

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His 20 25 30

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe 50 55 60

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 . 70 . 75 . 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro 130 135 140

Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser 145 \$150\$

Gly Ser Ser Ser Asn Ile Gly Asn Asn Asn Val Ser Trp Tyr Gln Gln 165 $$170\ _{\odot}$$

Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Asn Asn Lys Arg 180 \$180\$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser

Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr 210 215 220

His Cys Gly Thr Trp Asp Ser Ser Leu Val Ala Val Val Phe Gly Gly 225 \$230\$

Gly Thr Lys Leu Thr Val Leu Gly

<210> 1247 <211> 259

<212> PRT

<213> Homo sapiens

<400> 1247

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \cdot 35 40 45

Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe $_{65}$ $$ 70 $$ 75

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly 135

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser 145 150 155 160

Pro Gly Gln Ser Val Thr Ile Ser Cys Thr Gly Thr Asp Ser Asp Ile 165 \$170\$

Gly Gly Phe Asn Tyr Val Ser Trp Tyr Gln His His Pro Gly Lys Ala 180 185 190

Pro Lys Leu Ile Leu Tyr Glu Val Thr Lys Arg Pro Ser Gly Val Pro 195 200 205

Asp Arg Phe Ser Gly Ser Lys Ala Gly Asn Thr Ala Ser Leu Thr Val $210 \ \ \, 215 \ \ \, 220 \ \ \,$

Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr 225 \$230\$

Glu Gly Ser Asn Asn Ala Tyr Val Phe Gly Thr Gly Thr Lys Val Thr \$245\$

Val Leu Gly

<210> 1248 <211> 248

<212> PRT

<213> Homo sapiens

<400> 1248

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 $$ 5 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His \cdot 20 25 30

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

85 90 95

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly 100 105 110

Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro 130 135 140

Pro Ser Ala Ser Arg Thr Pro Arg Gln Arg Val Thr Ile Ser Cys Ser 145 \$150\$

Gly Ser Arg Ser Asn Ile Gly Glu Asn Tyr Val Tyr Trp Tyr Gln Gln 165 170 175

Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Lys Asn Asn Gln Arg 180 185 190

Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser 195 200 205

Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Val Tyr 210 215 220

Tyr Cys Ala Ser Trp Asp Asp Ser Leu Ser Gly Pro Val Phe Gly Arg 225 230 235 240

Gly Thr Lys Val Ser Val Leu Gly 245

<210> 1249

<211> 253

<212> PRT <213> Homo sapiens

<400> 1249

Gln Val Gln Leu Val Gln Ser Gly Val Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Asn His \$20\$

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Trp Ile Ser Gly His Asp Asp Ser Thr Lys Tyr Ala Gln Lys Phe 50 60

Gln Gly Arg Val Thr Met Thr Ala Asp Thr Ser Thr Ser Thr Ala Tyr 65 70 75 80

Ile Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Pro Phe Tyr Asp Thr Leu Thr Ser Tyr Val Phe Gln Tyr Phe $100 \,$ $\,$ $\,$ $100 \,$

Asp His Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val 130 135

Ile Ser Cys Thr Gly Thr Ser Gly Asp Val Gly Arg Tyr Asn Phe Val \$165\$

Ser Trp Tyr Gln Gln Tyr Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr 180 185 190

Glu Val Thr Lys Arg Pro Ser Gly Val Pro His Arg Phe Ser Gly Ser 195 \cdot 200 \cdot 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu Gln Ala Glu 210 $\,$ 220 $\,$

Asp Glu Ala Val Tyr Tyr Cys Ser Ser Tyr Ala Gly Ser Ile Asn Leu 225 $$ 230 $$ 235 $$ 240

Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 1250

<211> 260

<212> PRT

<213> Homo sapiens

<400> 1250 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 40 Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe 55 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 70 Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 90 Ala Arg Gly Arg Lys Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr 105 . 100 Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 120 Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly 135 Gly Ser Ala Leu Ser Tyr Val Leu Thr Gln Pro Pro Ser Ala Ser Gly 155 145 150 Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Phe Ser Asn 165 Ile Gly Thr Asn Thr Val Asn Trp Tyr Gln His Leu Pro Gly Thr Ala 180 185 Pro Arg Leu Leu Ile Phe Asn Asn Ser Gln Arg Pro Ser Gly Val Pro 195 200 Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile 210 215

Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp 225 230 235 240

Asp Asp Ser Leu Ser Gly His Val Val Phe Gly Gly Gly Thr Lys Leu \$245\$

Thr Val Leu Gly 260

<210> 1251 <211> 248 <212> PRT <213> Homo sapiens

TELES HOMO Bapica

<400> 1251 Gin Val Gin Leu Val Gin Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His $20 \\ 25 \\ 30$

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe 50

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe $_{65}$ $$ 70 $$ 75 $$ 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys $85 \ \cdot \ 90 \ 95$

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly $100 \\ 100 \\ 105$

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Ser Glu Leu Thr Gln

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145 150 150 155

Gln Gly Asp Ser Leu Arg Ser Tyr Ser Ala Ser Trp Tyr Gln Gln Lys \$165\$

Pro Gly Gln Ala Pro Leu Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro 185 180 Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 205 200 Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 220 215 Cys Ser Ser Arg Asp Asn Ser Asp Asn His Leu Val Val Phe Glv Glv 230 235 Gly Thr Lys Leu Thr Val Leu Gly <210> 1252 <211> 257 <212> PRT <213> Homo sapiens <400> 1252 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe Gln Gly Ard Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 90

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr $100 \\ 105 \\ 110$

Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly 130 135 140

Gly Ser Ala Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val 145 150 155 160

Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg 165 170 175

Ser Tyr Tyr Ala Asn Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val 180 185 190

Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg 195 $200\,$ 205

Phe Ser Ala Ser Thr Ser Gly Asn Thr Gly Ser Leu Ser Ile Thr Gly 210 215 220

Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Arg Asp Ser 225 230235235240

Ser Gly Asn His Trp Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu \$245\$

Gly

<210> 1253 <211> 256 <212> PRT

<213> Homo sapiens

<400> 1253

Glu Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Arg Thr Ser Gly Gly Thr Phe Arg Asn Tyr 20 25 30

Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Gly Val Ile Pro Ile Ser Ser Thr Ile Lys Tyr Gly Gln Lys Phe $_{50}$

Gln Asp Arg Leu Thr Ile Val Ala Asp Asp Leu Thr Asn Thr Thr Tyr

65 70 75 80

Met Glu Leu Ser Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Ala Thr Thr Ser Gln Lys His Asn Lys Tyr Ala Tyr Tyr 100 105 110

Phe Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser $_{130}^{\rm Gly}$ Gly Gly Ser $_{140}^{\rm Gly}$

Ala Leu Pro Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly 145 \$150\$

Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Ser 165 170 175

Asn Ala Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu 180 185 190

Leu Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe 195 \$200\$

Ser Gly Ser Lys Ser Ala Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu 210 215 220

Gln Ser Glu Asp Glu Gly Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser 225 $$ 230 $$ 235 $$. 240

Leu Tyr Gly Trp Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly \$245\$

<210> 1254

<211> 248

<212> PRT <213> Homo sapiens

... 1054

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe 50 55 60

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly 100 105 110

Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly .115 . 120 125

Pro Ser Ala Ser Gly Thr Ala Gly Gln Arg Val Thr Ile Ser Cys Ser 145 $$ 150 $$ 155 $$ 160

Gly Ser Arg Ser Asn Ile Gly Glu Asn Tyr Val Tyr Trp Tyr Gln Gln 165 170 175

Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Lys Asn Asn Gln Arg 180 . 185 . 190

Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser 195 200 205

Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Val Tyr 210 215 220

Tyr Cys Ala Ser Trp Asp Asp Ser Leu Ser Gly Pro Val Phe Gly Arg 225 230 235 240

Gly Thr Lys Val Thr Val Leu Gly

<210> 1255

<211> 258 <212> PRT

<213> Homo sapiens

<400> 1255

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp . 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}$

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Leu Trp Asp Arg Tyr $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly 130 135 140

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr 145 \$150\$

Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile \$165\$

Val Ser Asn Tyr Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro 180 185 190

Lys Leu Leu Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210 215 220

Gly Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp 225 230235235

Asp Ser Leu Ser Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val 245 250 255

Leu Glv

<210> 1256

<211> 257

<212> PRT <213> Homo sapiens

<213> HOMO Sapier

<400> 1256
Ghn Val Ghn Leu Val Ghn Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Gly Ile Leu Pro Met Phe Gly Thr Glu Ser Tyr Gly Gln Lys Phe 50 60

Gln Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Ile Val Tyr $_{65} \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Met Glu Leu Asn Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Val Arg Pro Lys Leu Arg Tyr Phe Asp Trp Leu Ser Arg His 100 $$105\$

Asp Ala Phe Asp Leu Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala 130 135 140

Gln Ala Val Leu Thr Gln Pro Ser Ser Ile Ser Gly Ala Pro Gly Gln 145 \$150\$ 155 \$160\$

Arg Val Thr Ile Ser Cys Ser Gly Thr Ser Pro Asn Ile Gly Ala Gly 170 165 Asp Glu Ile His Trp Tyr Gln Val Ser Pro Gly Lys Ala Pro Arg Leu 185 180 Leu Ile Tyr Ser Asn Ile Asn Arg Pro Ser Gly Val Pro Asp Arg Phe 195 200 Ser Gly Ser Lys Ser Gly Thr Thr Ala Ser Leu Thr Ile Thr Gly Leu 215 220 Arg Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Arg Val 230 235 Val Ser Gly Ser Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu 250 Gly <210> 1257 <211> 247 <212> PRT <213> Homo sapiens <400> 1257 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser . 1 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His 20 Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe 55 60 Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 70

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Ser Glu Leu Thr Gln 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Lys Ile Thr Cys 145 150 150 155

Gln Gly Glu Ser Leu Arg Gly Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys 165 170 175

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Arg Asn Asn Arg Pro $$^{\circ}$$ 180 $$^{\circ}$$ 185 $$^{\circ}$$ 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195 200 205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 \$215\$

Cys Asn Ser Arg Asp Ser Ser Gly Asn His Tyr Val Phe Ala Thr Gly 225 230235235240

Thr Lys Val Thr Val Leu Gly 245

<210> 1258

<211> 256

<212> PRT <213> Homo sapiens

<400> 1258

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Arg Val Ser Gly Gly Ser Phe Ile Asp Asp 20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 \cdot \cdot 45

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe

50 55 60

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly Asp Ser 100 105 110

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Met Val Thr 115 . 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly 130 140

Gly Ser Ala Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val 145 $$ 150 $$ 155 $$ 160

Ala Leu Gly Gln Thr Val Ser Ile Thr Cys Gln Gly Asp Ser Leu Arg 165 170 175

Asn Tyr Tyr Ala Ser Trp Tyr Leu Gln Lys Pro Gly Gln Ala Pro Leu 180 185 190

Leu Val Val Tyr Gly Lys Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg 195 200 205

Val Ser Gly Ser Ser Ser Glu Asp Thr Ala Ser Leu Thr Ile Thr Gly 210 215 220

Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser 225 230230235

Ser Gly Asn Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 255

<210> 1259

<211> 254 <212> PRT

<213> Homo sapiens

<400> 1259

Gln Val Gln Leu Val Gln Ser Gly Ala Val Ala Lys Glu Pro Gly Ser 1 5 10 15

Ser Val Thr Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ser Thr Tyr 20 25 30 Ala Phe Ser Trp Val Arq Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 Gly Gly Ile Ile Pro Lys Ser Gly Pro Thr Asn Tyr Ala Gln Lys Phe 55 Gln Gly Arg Val Thr Ile Ser Ala Asp Glu Leu Thr Arg Thr Ile Tyr 75 Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Lys Ala His Gly Glu Tyr Gly Arg Asp Tyr Tyr Tyr 1.00 Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser 120 Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala 130 Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly 145 150 Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ile Leu Arg Ser Tyr Tyr Ala Glv Trp Tvr Gln Gln Lvs Pro Glv Gln Ala Pro Val Leu Val Val 180 185 Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Thr Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala 215 Glu Asp Glu Ala Asp Tyr Phe Cys Asn Ser Arg Asp Thr Ser Gly Lys (230 Gln Trp Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly

245

<210> 1260 <211> 258

<212> PRT <213> Homo sapiens

<400> 1260

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Ser Lys Pro Gly Ser 10

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Leu Ile Asp Tyr 20

Ser Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 40

Gly Gly Thr Val Pro Leu Ala Asn Thr Ala Asn Tyr Ala Gln Lys Phe 50 55

Arg Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 70

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 90

Ala Lys Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser 100 105

Ser Tyr His Ser Ala Met Asp Val Trp Gly Gln Gly Thr Met Val Thr 125

Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 135 130

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala 145

Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile 170 165

Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro 180

Lys Leu Leu Ile Tyr Asp Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp 200 195

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr 210 215 220

Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Ala Trp Asp 225 230 235 240

Ser Ser Leu Ser Ala Tyr Val Phe Gly Ser Gly Thr Lys Leu Thr Val 245 250 255

Leu Gly

<210> 1261

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1261

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Ser Lys Pro Gly Ser 1 $$ 5 $$ 10 $$ 15

Ser Val Lys Val ser Cys Arg Ala Ser Gly Gly Thr Phe Ile Asp Tyr 20 25 30

Ser Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gly Gly Thr Ile Pro Leu Ala Asn Thr Ala Asn Tyr Ala Gln Lys Phe 50 55 60

Arg Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe $_{\rm 65}$ $_{\rm 70}$ $_{\rm 75}$ $_{\rm 80}$

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 $$90\ _{\odot}$$

Ala Lys Ser Gly Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser $100 \ \ 105 \ \ \ \ \ 110$

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr

Gly Ser Ala Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val 145 150 150 155

Ala Leu Gly Gln Thr Val Thr Ile Thr Cys Gln Gly Ala Ser Leu Arg \$165\$

Asn Tyr Tyr Ala Ser Trp Tyr Lys Gln Lys Pro Pro Gln Ala Pro Val $180 \,$ $185 \,$ $190 \,$

Leu Leu Val Tyr Gly Lys Asn Asn Arg Ser Ser Gly Ile Pro Asp Arg 195 \$200\$

Phe Ser Gly Ser Arg Ser Gly Asn Ile Ala Ser Leu Thr Ile Thr Gly 210 215 220

Thr Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser 225 230 235 240

Ser Gly Asp His Val Val Ile Gly Gly Gly Thr Lys Val Thr Val Leu \$245\$ \$250\$ \$255\$

Glv

<210> 1262

<211> 259

<212> PRT <213> Homo sapiens

<400> 1262

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp $20 \\ 25 \\ 30$

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val

Arg Asp Arg Ala Thr Ile Thr Gly Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly 130 135 140

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr 145 \$150\$

Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Thr Asn Ser Asn Ile \$165\$

Gly Gly Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro 180

Arg Leu Leu Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210 215 220

Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Asp Asp 225 230230235

Asp Arg Leu Asn Ala His Val Val Phe Gly Gly Gly Thr Lys Val Thr \$245\$

Val Leu Gly

<210> 1263

<211> 259 <212> PRT

<213> Homo sapiens

<400> 1263 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

.

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp

25 20 30 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 4.0 Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe 55 Gln Glv Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 70 75 Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr 105 Tyr His Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 120 Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly 135 Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala 145 150

Pro Gly Gln Gly Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile

165

Gly Ala Arg Phe Asp Val His Trp Tyr Arg Gln Leu Pro Gly Thr Ala 185

Pro Gln Leu Leu Ile Tyr Gly Asn Arg Asn Arg Pro Ser Gly Val Pro 195 200

Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile 215

Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr 225 230 235 . 240

Asp Ser Arg Leu Ser Gly Tyr Val Phe Gly Thr Gly Thr Lys Leu Thr 250 245

Val Leu Gly

<210> 1264

<211> 246 <212> PRT

<213> Homo sapiens .

<400> 1264

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val \$35\$ \$40\$

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly
100 105 110

Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Ile Val Leu Thr Gln 130 135

Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser 145 $$ 150 $$ 155 $$ 160

Cys Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln \$165\$ \$170\$

Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser 180 \$180\$

Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr

195 200 205

Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val 210 215 220

Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Leu Thr Phe Gly Gly Gly Thr 225 230 235 240

Lys Val Glu Ile Lys Arg 245

<210> 1265

<211> 258

<212> PRT <213> Homo sapiens

<400> 1265

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Arg Val Ser Gly Gly Ser Phe Ile Asp Asp 20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val \$35\$

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys \$85\$ 90 95

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly Asp Ser 100 105 110

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr 115 \$120\$

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135

Gly Ser Ala Gln Pro Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr 145 150 155 160

Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile 165 170 175

Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro 180 185 190

Lys Leu Leu Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp \$195\$

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210 215 220

Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp 225 $230 \hspace{1.5cm} 235 \hspace{1.5cm} 240$

Asp Ser Leu Asn Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val \$245\$

Leu Gly

<210> 1266

<211> 258

<212> PRT

<213> Homo sapiens

<400> 1266

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp 20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val
35 . 40 45

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe
50
60

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser

Ser Tyr His Ser Ala Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly 130 135

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Ala 145 150 155 160

Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile $_{\rm 165}$ $_{\rm 170}$ $_{\rm 175}$

Lys Val Val Ile Tyr Ser Asn Lys Gln Arg Pro Ser Gly Val Pro Asp 195 200205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210 215 220

Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp 225 230 235 240

Asp Thr Leu Asn Gly Pro Val Phe Gly Ile Gly Thr Lys Leu Thr Val 245 250 255

Leu Glv .

<210> 1267

<211> 248 <212> PRT

<213> Homo sapiens

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His
20 25 30

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe 50 55 60

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro \cdot 130 $\,$ 140

Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser 145 $$ 150 $$ 155 $$ 160

Gly Ser Arg Ser Asn Ile Gly Glu Asn Tyr Val Tyr Trp Tyr Gln Gln 165 \$170\$

Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Lys Asn Asn Gln Arg 180 185 190

Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser 195 \$200\$

Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Val Tyr 210 $$\rm 215$$

Tyr Cys Ala Ser Trp Asp Asp Ser Leu Ser Gly Pro Val Phe Gly Arg 225 230 230 235

Gly Thr Lys Val Ser Val Leu Gly 245

<210> 1268 <211> 246 <212> PRT

<213> Homo sapiens

<400> 1268

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His $20\,$

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe 50 60

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Thr Thr Leu Thr Gln 130 135 140

Ser Pro Ala Thr Leu Ser Val Ser Pro Gly Glu Arg Ala Thr Leu Ser 145 \$150\$

Cys Arg Ala Ser Gln Ser Val Ser Ser Asn Leu Ala Trp Tyr Gln Gln Gln 175 \$175\$

Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Thr Arg

Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu 195 200 205

Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr 210 215 220

Tyr Cys Gln Gln Tyr Asn Asn Trp Pro Lys Thr Phe Gly Gln Gly Thr 225 230 235 240

Arg Leu Glu Ile Lys Arg 245

<210> 1269

<211> 247 <212> PRT

<213> Homo sapiens

<400> 1269

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Arg Phe Leu Ser Tyr \$20\$

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Trp Ile Ser Thr Asp Ser Gly Arg Thr Lys Gln Ala Gln Asn Phe 50 55 60

Gln Gly Arg Val Ile Met Thr Thr Asp Thr Leu Thr Thr Thr Val Phe 65 70 75 80

Leu Glu Val Arg Asn Leu Arg Ser Asp Asp Ser Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Arg Asp Thr Val Arg Ser Gly Gly Met Asp Val Trp Gly Arg Gly
100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Ser Ala Leu Ser Tyr Val Leu Thr Gln Pro Pro 130 135 . 140

Ser Phe Ser Asn Ile Gly Arg Asn Thr Val Asn Trp Tyr Gln Gln Leu \$165\$ 170 175

Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Lys Asn Asn Gln Arg Pro

180 185 190

Ser Gly Val Pro Asp Arg Ile Ser Gly Ser Lys Ser Gly Thr Ser Ala 195 200 205

Ser Leu Ala Ile Asn Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Ala Ala Trp Asp Asp Ser Leu Glu Gly Tyr Val Phe Gly Thr Gly 225 230235235

Thr Lys Leu Thr Val Leu Gly

<210> 1270 <211> 259

<212> PRT

<213> Homo sapiens

<400> 1270

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$ \$40\$ \$45\$

Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr
. 100 105 110

Tyr His Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135 140

Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala 145 150150155

Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile 165 170 175

Gly Ala Gly Tyr Asn Val His Trp Tyr Arg Gln Phe Pro Gly Ala Pro 180 185 190

Pro Gln Leu Leu Ile Tyr Arg Asn Thr Asn Arg Pro Ser Gly Ile Pro 195 200 205

Asp Arg Phe Ser Gly Ser Lys Ser Asp Ala Ser Ala Ser Leu Ala Ile 210 215 220

Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Glu Ser Tyr 225 $230 \hspace{1.5cm} 235 \hspace{1.5cm} 240$

Asp Asn Ser Leu Ser Gly Ser Ile Phe Gly Gly Gly Thr Lys Val Thr \$245\$

Val Leu Gly

<210> 1271 <211> 255 <212> PRT

<213> Homo sapiens

<400> 1271

Gln Val Gln Leu Val Gln Ser Gly Ala Val Ala Arg Glu Pro Gly Ser 1 5 10 15

Ser Val Thr Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ser Ser Tyr 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Gly Ile Ile Pro Lys Ser Gly Pro Thr Asn Tyr Ala Gln Lys Phe .50 60

Arg Gly Arg Val Thr Ile Ser Ala Asp Glu Leu Thr Arg Thr Ile Tyr 65 70 75 80

Met	Glu	Leu	Ser	Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Туг	Tyr 95	Cys
Ala	Arg	Asp	Lys 100	Ala	His	Gly	Glu	Tyr 105	Gly	Arg	qsA	Tyr	Tyr 110	Tyr	Tyr
Tyr	Gly	Met 115	Asp	Val	Trp	Gly	Arg 120	Gly	Thr	Leu	Val	Thr 125	Val	Ser	Ser
Gly	Gly 130	Gly	Gly	Ser	Gly	Gly 135	Gly	Gly	Ser	Gly	Gly 140	Gly	Gly	Ser	Ala
Gln 145	Ala	Vál	Leu	Thr	Gln 150	Pro	Ser	Ser	Val	Ser 155	Glu	Val	Pro	Gly	Gln 160
Thr	Val	Thr	Ile	Ser 165	Cys	Ser	Gly	Ser	Ser 170	Phe	Asn	Ile	Gly	Lys 175	His
Pro	Val	Asn	Trp 180	Tyr	His	Gln	Val	Pro 185	Gly	Lys	Ala	Pro	Lys 190	Leu	Leu
Ile	Tyr	Tyr 195	Asn	Asn	Leu	Arg	Ser 200	Ser	Gly	Val	Ser	Asp 205	Arg	Phe	Ser
Gly	Ser 210	Lys	Ser	Gly	Thr	Ser 215	Ala	Ser	Leu	Ala	Ile 220	Arg	Gly	Leu	Val
Ser 225	Asp	His	Glu	Gly	Asp 230	Tyr	Tyr	Cys	Ser	Ala 235	Trp	qaA	qaA	Thr	Leu 240
Arg	Gly	Trp	Val	Phe 245	Gly	Gly	Gly	Thr	Lys 250	Leu	Thr	Val	Leu	Gly 255	
)> 12 L> 24														
	2> PI 3> Ho		sapi	ens											
)> 1: Val		Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Arg	Lys	Pro	Gly 15	Ser
Ser	Val	Lys	Val 20	ser	Cys	Lys	Ala	Ser 25	Gly	Gly	Ser	Phe	Ser 30	Ser	His

Val	Phe	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	${\tt Gln}$	Gly	Leu	Glu	Trp	Val
		35					40					45			

- Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe $_{\rm 50}$ $_{\rm 60}$
- Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80
- Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys $_{\rm 85}$ $_{\rm 90}$
- Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 \$120\$
- Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro 130 135 140
- Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser 145 \$150\$
- Gly Ser Asn Ser Asn Ile Gly Gly Asn Thr Val Asn Trp Tyr Gln Gln 165 $$ 170 $$ 175
- Leu Pro Gly Thr Ala Pro Arg Leu Leu Ile Tyr Ser Asn Asn Gln Arg 180 185 190
- Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser 195 200 205
- Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr $210 \\ \hspace{1.5cm} 215 \\ \hspace{1.5cm} 220 \\ \hspace{1.5cm}$
- Tyr Cys Ala Ala Arg Asp Asp Arg Leu Asn Ala His Val Val Phe Gly $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 240$
- Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1273 <211> 248

<212> PRT

<213> Homo sapiens

<400> 1273

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His 20 25 30

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 . 40 . 45

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe
50 60

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 \$120\$

Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro 130 140

Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser 145 150 155 160

Gly Ser Ser Ser Asn Ile Ile Arg Asn Tyr Ala Tyr Trp Tyr Gln Gln 165 170 175

Phe Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Arg Asp Asn Gln Arg $180 \,$ $185 \,$ $190 \,$

Pro Ser Gly Val Pro Asp Arg Phe Ser Ala Ser Lys Ser Gly Thr Ser 195 200

Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Ala Gly Trp Asp Asp Ser Leu Ser Gly Pro Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1274

<211> 258

<212> PRT <213> Homo sapiens

<400> 1274

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Fro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp 20 25 30

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val \$35\$ \$40\$

Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe $50 \,\,$ $\,\,$ 60 $\,\,$

Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe 65 70 75 80

Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser

Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly 130 135 140

Gly Ser Ala Gln Ser Val Val Thr Gln Pro Pro Ser Ala Ser Ala Thr 145 \$150\$

Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Arg Ser Asn Ile 165 170 175

Gly Gly Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro

180 185 190

Lys Leu Leu Ile Tyr Gly Leu Asn Gln Arg Pro Ser Gly Val Pro Asp 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser 210 215 220

Gly Leu Gln Ser Asp Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Trp Asp 225 230235235

Asp Ser Leu Asp Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val \$245\$

Leu Gly

<210> 1275

<211> 259

<212> PRT

<213> Homo sapiens

<400> 1275

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}$

Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe $50 \ \ 55 \ \ 60$

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr $100 \ \ \, \cdot \ \, 105 \ \ \, 110$

Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 \$120\$

Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 135 140 Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala 145 150 1.55 160 Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Ile Ile 165 170 175 Glv Ala Glv Tyr Asp Val His Trp Tyr Gln Gln Phe Pro Gly Thr Ala 1.80 185 Pro Lys Leu Leu Ile Tyr Gly Ser Asn Asn Arg Pro Ser Gly Val Pro 195 200 205 Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile 215 220 210 Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr 240 225 230 235 Asp Ser Ser Leu Ser Gly Ser Phe Phe Gly Gly Gly Thr Lys Leu Thr 250 Val Leu Glv <210> 1276 <211> 258 <212> PRT <213> Homo sapiens <400> 1276 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp 25 20

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr \$100\$

Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly 130 \$135\$

Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala 145 \$150\$

Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile 165 $$170\$

Gly Lys Lys Ser Val Ser Trp Tyr Gln Gln Val Pro Gly Thr Ala Pro 180 185 190

Arg Leu Leu Ile Tyr Asp Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr 210 215 220

Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp 225 230 235 240

Asn Ser Leu Gly Val Trp Ala Phe Gly Gly Gly Thr Lys Leu Thr Val \$245\$

Leu Gly

<210> 1277

<211> 259 <212> PRT

<213> Homo sapiens

<400> 1277

Gln 1	Val	Gln	Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	GLy 15	Ser
Ser	Val	Lys	Val 20	Ser	Суз	Arg	Val	Ser 25	Gly	Gly	Ser	Phe	Thr 30	Asp	Asp
Ser	Ile	Asn 35	Trp	Leu	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Leu 45	Glu	Trp	Val
Gly	Gly 50	Thr	Ile	Pro	Leu	Ala 55	Asn	Arg	Ala	Asn	Tyr 60	Ala	Gln	Lys	Phe
Arg 65	Asp	Arg	Val	Thr	Ile 70	Thr	Ala	Asp	Glu	Leu 75	Thr	Ala	Thr	Val	Phe 80
Leu	Glu	Leu	Thr	Ser 85	Leu	Arg	Ser	Asp	Asp 90	Thr	Ala	Leu	Tyr	Tyr 95	Cys
Ala	Arg	Ser	Ser 100	Pro	Pro	Lys	Trp	Tyr 105	Asp	Ala	Leu	Thr	Gly 110	Asp	Ser
Ser	Tyr	His 115	Ser	Ala	Met	Gly	Val 120	Trp	Gly	Arg	Gly	Thr 125	Leu	Val	Thr
Val	Ser 130	Ser	Gly	Gly	Gly	Gly 135	Ser	Gly	Gly	Gly	Gly 140	Ser	Gly	Gly	Gly
Gly 145	Ser	Ala	Leu	Ser	Tyr 150	Val	Leu	Thr	Gln	Pro 155	Pro	Ser	Ala	Ser	Gly 160
Thr	Pro	Gly	Gln	Arg 165	Val	Thr	Ile	Ser	Cys 170	Ser	Gly	Ser	Asn	Ser 175	Asn
Ile	Gly	Ser	Asn 180	Pro	Val	Asn	Trp	Tyr 185	Gln	Gln	Leu	Pro	Gly 190	Thr	Ala
Pro	Lys	Leu 195	Leu	Ile	Tyr	Asn	Asp 200	Asn	Gln	Arg	Pro	Ser 205	Gly	Val	Pro
Asp	Arg 210	Phe	Ser	Gly	Pro	Lys 215	Ser	Gly	Thr	Ser	Ala 220	Ser	Leu	Ala	Ile
Ser 225	Gly	Leu	Gln	Ser	Glu 230	qaA	Glu	Ala	Asp	Tyr 235	Tyr	Cys	Ser	Val	Trp 240

Asp Asp Ser Leu Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr 245 $$ 250 $$ 255

Val Leu Gly

<210> 1278 <211> 263

<211> 263 <212> PRT

<213> Homo sapiens

<400> 1278 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ala Leu Ser Ser Asp $20 \hspace{1cm} 25 \hspace{1cm} 30$.

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 . 40 45

Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr

Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly 130

Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Leu Ser Ala Ser 145 $$ 150 $$ 155 $$ 160

Pro Gly Thr Ser Ala Thr Leu Thr Cys Ala Leu Arg Ser Asp Ile Ser 165 170 175

Val Ala Asp Tyr Lys Ile Phe Trp Tyr His Gln Lys Pro Gly Ser Pro 180 185 190

Pro Gln Ser Leu Leu Ser Tyr Lys Ser Asp Ser Asp Lys Glu Gln Gly

Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Ser Asp Ala Ser Ala Asn 210 215 . 220

Ala Gly Ile Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp 225 230 230 235

Tyr Tyr Cys Val Ile Trp Tyr Lys Asn Ala Trp Val Phe Gly Gly Gly $245 \\ 250 \\ 250$

Thr Lys Leu Thr Val Leu Gly 260

<210> 1279

<211> 256

<212> PRT <213> Homo sapiens

<400> 1279

Glu Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Arg Thr Ser Gly Gly Thr Phe Arg Asn Tyr
20 25 30

Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 \$40\$

Gly Gly Val Ile Pro Ile Ser Ser Thr Ile Lys Tyr Gly Gln Lys Phe

Gln Asp Arg Leu Thr Ile Val Ala Asp Asp Leu Thr Asn Thr Thr Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ala Ala Thr Thr Ser Gln Lys His Asn Lys Tyr Ala Tyr Tyr

Phe Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser

115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser 130 135 140

Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly 145 150 150

Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn 165 170 175

Asp Val Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu 180 185

Ser Gly Ser Lys Ser Gly Thr Ser Ala Tyr Leu Ala Ile Ser Gly Leu 210 215 220

Gln Ser Glu Asp Glu Ala Asp Tyr His Cys Ala Val Trp Asp Asp Ser 225 230 235 240

Leu Asp Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 255

<210> 1280

<211> 250

<212> PRT <213> Homo sapiens

<400> 1280

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Ser Ser His

Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val

Gly Gly Ile Thr Pro Lys Phe Ala Thr Pro Asn Tyr Ala Gln Lys Phe 50 55 60

Gln His Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe 65 70 75 80

Met Asp Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 90 85 95 Ala Arg Gly Tyr Asp Ser Ser Ala Phe Arg Ala Phe Asp Ile Trp Gly 100 105 110 Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro 1.30 135 140 Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Thr Ser Ser Asn Ile Gly Ala Gly Phe Asp Val His Trp Tyr Gln 165 170 175 Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly Ser Ser Asn 180 185 190 Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr 195 200 205 Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp 210 215 Tyr Tyr Cys Gln Ser Tyr Asp Asn Leu Ser Gly Ser Asn Trp Val Phe 230 235 Gly Gly Gly Thr Lys Leu-Thr Val Leu Gly 245 <210> 1281 <211> 255 <212> PRT <213> Homo sapiens <400> 1281 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Thr Phe Arg Thr His

Ala	Phe	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Glu	Gly	Leu 45	Glu	Trp	Met
Gly	Gly 50	Ile	Ile	Pro	Lys	Phe 55	Gly	Thr	Pro	Asn	Tyr 60	Ala	Gln	Lys	Phe
Gln 65	Asp	Arg	Val	Thr	11e 70	Ile	Ala	Asp	Glu	Leu 75	Thr	Ser	Thr	Val	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Phe 95	Cys
Ala	Ile	Ala	Lys 100	Gly	Tyr	Tyr	Tyr	Asp 105	Ser	ser	Gly	Ala	Ser 110	Asp	Val
Phe	Asp	Val 115	Trp	Gly	Gln	Gly	Thr 120	Leu	Val	Thr	Val	Ser 125	Ser	Gly	Gly
Gly	Gly 130	Ser	Gly	Gly	Gly	Gly 135	Ser	Gly	Gly	Gly	Gly 140	ser	Ala	Gln	Ala
145					150		Val			155		-		-	160
Thr	Val	Ser	Cys	Thr 165	Gly	Ser	Ser	Ser	Asn 170	Ile	Gly	Ala	Gly	Phe 175	Asp
Val	Asn		Phe 180	Gln	Gln	Leu	Pro	Gly 185	Ala	Ala	Pro	Arg	Leu 190		Ile
Tyr	Gly	Asn 195		Asn	Ārg	Pro	Ser 200	Gly	Val	Pro	Asp	Arg 205	Phe	Ser	Gly
Ser	Lys 210	Ser	Gly	Thr	Ser	Ala 215	Ser	Leu	Val	Ile	Thr 220	Gly	Leu	Gln	Ala
Glu 225	Asp	Glu	Ala	Asp	Tyr 230	Tyr	Cys	Gln	Ser	Tyr 235	Asp	Ser	Ser	Gln	Gly 240
Gly	Ser	Arg	Val	Phe 245	Gly	Gly	Gly	Thr	Lys 250	Leu	Thr	Val	Leu	Gly. 255	
	<210> 1282 <211> 260														

<212> PRT <213> Homo sapiens

<400> 1282

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met- \$35\$

Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe 50 $$ 55 $$ 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe $_{65}$ $$ 70 $$ 75 $$ 80

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr $100 \,$ $\,$ 105 $\,$ $\,$ 110 $\,$

Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr \cdot 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly 130 \$135\$

Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala 145 $$150\$

Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile $_{\rm 1165}$

Gly Thr Gly Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala 180 185 190

Pro Lys Leu Leu Ile Tyr Gly Asn Asn Asn Arg Pro Ser Gly Val Pro 195 200 205

Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile 210 215 220

Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr 235 230 Asp Ser Ser Leu Ser Ala Pro Tyr Val Phe Gly Thr Gly Thr Lys Val 245 250 255 Thr Val Leu Gly 260 <210> 1283 <211> 257 <212> PRT <213> Homo sapiens <400> 1283 Gln Val Gln Leu Val Gln Ser Gly Ala Val Ala Arg Glu Pro Gly Ser Ser Val Thr Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ser Ser Tyr Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Ile Pro Lys Ser Gly Pro Thr Asn Tyr Ala Gln Lys Phe Arg Gly Arg Val Thr Ile Ser Ala Asp Glu Leu Thr Arg Thr Ile Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Lys Ala His Gly Glu Tyr Gly Arg Asp Tyr Tyr Tyr Tyr 105 100 Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 120 115 Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala 130 135

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln 145 150 150 160

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn 165 170 175

Tyr Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu 180 185 190

Ile Tyr Thr Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile Ser Gly Leu Arg 210 215 220

Ser Glu Asp Glu Ala Tyr Tyr Tyr Cys Ala Ala Trp Asp Asp Asn Leu 225 $$ 230 $$ 235 $$ 240

Ser Ala Pro Arg Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu 245 250 255

Gly

<210> 1284

<211> 255

<212> PRT <213> Homo sapiens

<400> 1284

Gln Met Gln Leu Val Gln Ser Gly Ala Val Ala Arg Glu Pro Gly Ser 1 $$ 15

Ser Val Thr Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ser Ser Tyr 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Gly Ile Ile Pro Lys Ser Gly Pro Thr Asn Tyr Ala Gln Lys Phe 50 60

Arg Gly Arg Val Thr Ile Ser Ala Asp Glu Leu Thr Arg Thr Ile Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Lys Ala His Gly Glu Tyr Gly Arg Asp Tyr Tyr Tyr Tyr

100 105 110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala 130 135 140

Leu Pro Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Ala Pro Gly Gln 145 \$150\$

Arg Val Thr Ile Ser Cys Ser Gly Asp Asn Ser Asn Ile Gly Glu Asn 165 $$170\$

Val Val Tyr Trp Tyr Gln Gln Leu Arg Gly Thr Ala Pro Lys Leu Leu 180 185 190

Ile Tyr Arg Asn Tyr Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg 210 215 220

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu 225 230 230 235

Arg Thr Trp Met Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 255

<210> 1285

<211> 256

<212> PRT <213> Homo sapiens

<400> 1285

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Gln Val Ser Gly Gly Arg Phe Asn Ser Tyr \$20\$

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Gly Gly Leu Ile Pro Met Phe Gly Pro Ala Lys Tyr Ala Gln Arg Phe 50 60

Gln 65	Gly	Arg	Val	Thr	Ile 70	Thr	Ala	Asp	Thr	Leu 75	Thr	Asn	Thr	Ala	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Thr	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Asp	Arg 100	Gly	Tyr	Thr	Gly	Tyr 105	Asp	Arg	Leu	Val	Gly 110	Gly	Tyr
Tyr	Phe	Asp 115	Phe	Trp	Gly	Lys	Gly 120	Thr	Leu	Val	Thr	Val 125	Ser	Ser	Gly
Gly	Gly 130	Gly	Ser	Gly	Gly	Gly 135	Gly	Ser	Gly	Gly	Gly 140	Gly	Ser	Ala	Gln
Ala 145	Val	Leu	Thr	Gln	Pro 150	Ser	Ser	Val	Ser	Gly 155	Ala	Pro	Gly	Gln	Arg 160
Val	Thr	Ile	Ser	Cys 165	Thr	Gly	Ser	Ser	Ser 170	Asn	Ile	Gly	Gly	Arg 175	Tyr
Glu	Val	Asn	Trp 180	Tyr	Gln	Gln	Leu	Pro 185	Gly	Arg	Ala	Pro	Lys 190	Val	Leu
Ile	Tyr	Val 195	Asn	Asn	Asn	Arg	Pro 200	Ser	Gļy	Val	Ser	Gly 205	Arg	Phe	Ser
Gly	Phe 210	Lys	Ser	Gly	Thr	Ser 215	Ala	Tyr	Leu	Ala	Ile 220	Thr	Gly	Leu	Gln
Ala 225	Glu	Asp	Glu	Ala	Asp 230	Tyr	Туг	Cys	Gln	Ser 235	Arg	qaA	Ser	Gly	Leu 240
Gly	Asp	Ser	Val	Val 245	Phe	Gly	Gly	Gly	Thr 250	Lys	Val	Thr	Val	Leu 255	Gly
<210- 1286 <211- 246 <212- PRT <213- Homo sapiens															
	0> 1: Val	286 Gln	Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ala

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Arg Phe Leu Ser Tyr \$20\$

- Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$
- Gly Trp Ile Ser Thr Asp Ser Gly Arg Thr Lys Gln Ala Gln Lys Phe
 50 55 60
- His Arg Arg Val Ile Met Thr Thr Asp Thr Leu Thr Thr Thr Val Phe 65 70 75 80
- Ala Arg Asp Thr Val Arg Ser Gly Gly Met Asp Val Trp Gly Gln Gly 100 105 110
- Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly I15 120 125
- Ser Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser 130 140
- Ala Ser Gly Thr Pro Gly Gln Thr Val Thr Met Ser Cys Ser Gly Ser 145 \$150\$
- Ser Ser Asn Ile Gly Pro Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro $165 \hspace{1cm} 170 \hspace{1cm} 175 \hspace{1cm}$
- Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn Asp Gln Lys Pro Ser 180 $$185\ \ \, \mbox{180}$
- Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser 195 \$200\$
- Leu Ala Ile Arg Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys $210 \\ \hspace{1.5cm} 215 \\ \hspace{1.5cm} 220$
- Ser Thr Trp Asp Asp Ser Leu Lys Gly Arg Val Phe Gly Gly Thr 225 230 235 240
- Lys Leu Thr Val Leu Gly

<210> 1287 <211> 254 <212> PRT <213> Homo sapiens <400> 1287 Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln 10 1 5 Ile Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ala Ser Asn 20 25 Gly Ala Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu 35 40 45 Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Val Asp Tyr Ala 55 60 Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn 65 . 70 . 75 . 80 Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val 90 85 Tyr Tyr Cys Ala Arg Asp Arg Tyr Asp Ile Leu Thr Gly Tyr Tyr 100 105 Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 135 Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Arg Gly Gln Ser 150 . 155 Ile Thr Ile Ser Cys Thr Gly Thr Thr Gly Asp Val Gly Gly Tyr Asp 170 . 175 165 Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Gly Ile Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser 195 200

Ala Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220 . Ala Glu Asp Glu Ala Asp Tyr Phe Cys Ser Thr Tyr Ala Pro Pro Gly 230 235 240 Ile Ile Met Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly . 245 250 <210> 1288 <211> 254 <212> PRT <213> Homo sapiens <400> 1288 Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln 5 10 Ile Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ala Ser Asn 25 20 Gly Ala Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu 35 45 40 Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Val Asp Tyr Ala 50 55 60 Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn 70 65 75 Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val . 85 90 Tyr Tyr Cys Ala Arg Asp Arg Tyr Asp Ile Leu Thr Gly Tyr Tyr 100 · 105 110 Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser 120 115 125 Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Arg Gly Gln Ser 145 150 155

Ile Thr Ile Ser Cys Thr Gly Thr Thr Gly Asp Val Gly Gly Tyr Asp $_{165}$ $_{175}$

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Leu 180 185 190

Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser 195 200 205

Ala Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 220

Ala Glu Asp Glu Ala Asp Tyr Phe Cys Ser Thr Tyr Ala Pro Pro Gly 225 230 235 240

<210> 1289

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1289

Gln Val Gln Leu Gln Gln Trp Gly Gly Gly Val Val Gln Pro Gly Arg 1 $$ 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Glu Arg Ile Lys Asn Tyr Gly Asp Ser Val 50 60

Lys Gly Arg Phe Thr Gly Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr 65 . 70 75

Leu Glu Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$

Ala Thr Glu Val Arg Asn Tyr Asp Leu Leu Thr Arg Ser Tyr Leu Ala 100 \$105\$ 110

Gly Pro Leu Asp Asn Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser

115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn
165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 $$180\,$

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 $$ 230 $$ 235 $$ 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1290

<211> 249 <212> PRT

<213> Homo sapiens

<400> 1290

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 2025

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 $$40\$

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
50 . 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr $65 70 . 75 80$

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Glu Met Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Leu Asn Tyr 100 105 110

Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 $$ 150 $$. 155

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 175

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys As
n Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly 225 230 . 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1291

<211> 245

<212> PRT

<213> Homo sapiens

Ser Val Lys Val Ser Cys Lys Met Ser Gly Gly Thr Phe Ser Thr Tyr 20 25 30

Ser Val Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Ala Lys Ile Ile Pro Asn Ile Asn Lys Ile Glu Tyr Ala Glu Asn Leu 50 55 60

His Asp Arg Leu Ser Ile Ala Ala Asp Thr Ser Thr Asp Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Asp Tyr Asp Ile Leu Thr'Gly Tyr Tyr Met Asp Val Trp \$100\$

Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Asp Ile Val Met Thr Gln Ser 130 · 135

Pro Ser Thr Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys 145 $$ 150 $$ 150 $$ 155 $$

Arg Ala Ser Gln Gly Ile Ser Ser Trp Leu Ala Trp Tyr Gln Gln Lys 165 170 175

Pro Gly Arg Ala Pro Lys Val Leu Ile Tyr Lys Ala Ser Thr Leu Glu 180 185 190

Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe 195 200. 205

Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr 210 220

Cys Gln Gln Ser Tyr Ser Thr Pro Trp Thr Phe Gly Gln Gly Thr Lys 225 230235

Leu Glu Ile Lys Arg 245

<210> 1292 <211> 251

<212> PRT <213> Homo sapiens

<400> 1292

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Leu Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Leu Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 - 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe
100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr His Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230235235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1293 <211> 248 <212> PRT <213> Homo sapiens

<400> 1293 Gin Val Gin Leu Gin Gin Ser Gly Ala Lys Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 . 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr $65 \hspace{1cm} 70 \hspace{1cm} 75 \hspace{1cm} 80$

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 . 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \\ 105 \\ 110$

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 175 \$170\$

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1294

<211> 247

<212> PRT <213> Homo sapiens

<400> 1294

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Tyr \$20\$

Tyr Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Arg Val \$35\$ 40 \cdot 45

Ser Tyr Ile Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr $65 \ \ \, 70 \ \ \, 75 \ \ \, 80$

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Val Lys Arg Asp Ile Leu Thr Gly Tyr Val Glu Gly Met Asp 100 · 105 110

Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln

130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145 150 155 160

Gln Gly Gly Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys 165 170 175

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro 180 185 190

Ser Gly Ile Pro Asp Arg Leu Ser Gly Ser Ser Ser Gly Asn Thr Ala 195 200 205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly 225 230 235 240

Thr Lys Leu Thr Val Leu Gly 245

<210> 1295

<211> 254

<212> PRT <213> Homo sapiens

<400> 1295

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Val Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Lys Gly Arg Phe Thr Ile Ser Arg Gly Asn Ser Asn Asn Thr Leu Tyr $65 \ \ \, 70 \ \ \, 75 \ \ \, 80$

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Lys Gly Gly Pro His Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Ala $100 \hspace{1.5cm} 105 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Val Gly Phe Asp Ile Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 140

Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Arg Gly Gln Ser 145 150 155 160

The Thr Ile Ser Cys Thr Gly Thr Thr Gly Asp Val Gly Gly Tyr Asp 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Leu 180 185 190

Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser

Ala Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Phe Cys Ser Thr Tyr Ala Pro Pro Gly 225 230 235 240

Ile Ile Met Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1296

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1296

Gln Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Asn Phe Asn Ser Tyr
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 \$40\$. \$45

Glu Gly Phe Ile Pro Val Phe Arg Thr Val Gln Tyr Ser Lys Lys Phe 50 60

Gln Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr 65 707075

Met Glu Leu Arg Ser Leu Arg Tyr Asp Asp Thr Ala Met Tyr Tyr Cys 85 90 95

Ala Arg Asp Ile Asp Ala Arg Leu Ala Ala Leu Asp Ala Phe Asp Ile 100 $_{\circ}$ 105 $_{\odot}$ 110

Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln 130 . 135 . 140

Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys 145 150 150 160

Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln \$165\$

Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln $180\,$

Arg Pro Ser Gly Ile Pro Gly Arg Phe Ser Gly Ser Lys Ser Gly Thr 195 200 205

Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly 225 230235235

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1297

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1297

Gln 1	Val	Gln	Leu	Gln 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser
Ser	Val	Lys	Val 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Tyr	Thr	Phe	Thr 30	Lys	Tyr
Thr	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Pro 45	Glu	Trp	Met
Gly	Trp 50	Ile	Asn	Gly	Gly	Ser 55	Gly	Asp	Thr	Lys	Tyr 60	Ser	Arg	Lys	Phe
Gln 65	Gly	Arg	Val	Thr	Ile 70	Thr	Lys	Asp	Thr	Ser 75	Ala	Ser	Ala	Ala	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Gly	Ser	Glu	Asp 90	Thr	Ala	Leu	Tyr	Tyr 95	Cys
Ala	Arg	Ala	Thr 100	His	Asp	Pro	Leu	Thr 105	Gly	Tyr	Ser	Phe	Asp 110	Gly	Phe
Asp	Ile	Trp 115	Gly	Arg	Gly	Thr	Leu 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gly
Gly	Ser 130	Gly	Gly	Gly	Gly	Ser 135	Gly	Gly	Gly.	Gly	Ser 140	Gln	Ser	Val	Leu
Thr 145	Gln	Pro	Ala	Ser	Val 150	Ser	Gly	Ser	Pro	Gly 155	Gln	Ser	Ile	Thr	Ile 160
Ser	Cys	Thr	Gly	Thr 165	Ser	Ser	Asp	Val	Gly 170	Gly	Tyr	Asn	Tyr	Val 175	Ser
Trp	Tyr	Gln	Gln 180	His	Pro	Gly	Lys	Ala 185	Pro	Lys	Leu	Met	Ile 190	Tyr	Glu
Gly	Ser	Lys 195	Arg	Pro	Ser	Gly	Val 200	Ser	Asn	Arg	Phe	Ser 205	Gly	Ser	Lys
Ser	Gly 210	Asn	Thr	Ala	Ser	Leu 215	Thr	Ile	Ser	Gly	Leu 220	Gln	Ala	Glu	Asp
Glu 225	Ala	Asp	Tyr	Tyr	Cys 230	Ser	Ser	Tyr	Thr	Thr 235	Arg	Ser	Thr	Arg	Val 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1298 <211> 253

<212> PRT

<213> Homo sapiens

<400> 1298

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 2025

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Gly Gly Ile Ile Pro Thr Leu Gly Thr Thr Asn Tyr Ala Gln Asn Phe 50 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Arg Leu Thr Ser Thr Ala Tyr $65 \ 70 \ 75 \ 80$

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Phe Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg His Arg Ser Arg Ser Cys Ser Ser Thr Ser Cys Arg Asn Asp 100 105 110

Ala Phe Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val 145 150150155

Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val

Asn Trp Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr 180 185 190

Asn Asn Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser

Lys Ser Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly 225 230 235

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1299

<211> 249

<212> PRT <213> Homo sapiens

<400> 1299

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr \$20\$. \$25\$. \$30\$

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

Ala Arg Glu Met Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Leu Asn Tyr 100 105 110

Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile

145 150 155 160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 165 170 175

Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys His Cys Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly 225 230 240

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1300

<211> 246 <212> PRT

<213> Homo sapiens

<400> 1300

Lys Val Gln Leu Val Gln Ser Gly Ala Glu Leu Lys Arg Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Val Ser Gly Gly Thr Phe Lys Tyr Tyr 20 25 30

Ser Tyr Ser Trp Ile Arg Gln Ala Pro Gly His Trp Pro Glu Trp Met $_{\rm 35}$ $_{\rm 40}$

Gly Gly Ile Asn Val Ile Arg Asp Thr Ala Asn Tyr Ala Gln Glu Phe $50 \ \ 55 \ \ 60$

Arg Gly Arg Ala Thr Ile Thr Ala Asp Gln Leu Thr Thr Thr Val Tyr $65 \ \ \, 70 \ \ \, 75 \ \ \, 80$

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Met Tyr Phe Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Thr Glu Gly Ala Ala Asp Tyr Leu Asn Gly Gln Tyr Phe Gln Asp 100 \$100\$ 100 110

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp 130 135 140

Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln 145 150 155 160

Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro $165 \hspace{1cm} 170 \hspace{1cm} 175$

Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Ile Asn Arg Pro Ser 180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser 195 200 205

Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys 210 215 220

Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr 225 230 235

Lys Leu Thr Val Leu Gly

<210> 1301

<211> 256

<212> PRT

<213> Homo sapiens

<400> 1301

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Asn Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Ile Asp Tyr 20 25 . 30

Tyr Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35\,$

Gly Trp Ile Asn Pro Lys Ser Gly Asp Thr Asn Tyr Ala Gln Arg Phe 50 $$ 60 $$

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 70 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 90 Ala Arg Gln Lys Val Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Tyr Tyr 105 Tyr Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln 145 150 Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn 165 170 Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser 200 Gly Ser Lys Ser Gly Asn Ser Ala Ser Leu Ala Ile Thr Gly Val Gln 215 Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu 225 230 235 Arg Gly Ser Arg Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1302 <211> 254 <212> PRT

<213> Homo sapiens

<400> 1302

Ser	Leu	Arg	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Asp	Phe	Ser 30	Thr	Tyr
Gly	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Val
	Val 50	Ile	Ser	Tyr	Asp	Gly 55	Ser	Asn	Lys	Tyr	Tyr 60	Ala	Asp	Ser	Ala
Lys 65	Gly	Arg	Phe	Thr	Ile 70	Ser	Arg	Asp	Asn	Ser 75	Gln	Asn	Met	Leu	Tyr 80
Leu	Gln	Met	Asn	Ser 85	Leu	Arg	Pro	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Thr	Glu	Val 100	Arg	Asn	Tyr	Asp	Leu 105	Leu	Thr	Arg	Ser	Tyr 110	Leu	Ala
Gly	Pro	Leu 115	Asp	Asn	Trp	Gly	Lys 120	Gly	Thr	Met	Val	Thr 125	Val	Ser	Ser
Gly	Gly 130	Gly	Gly	Ser	Gly	Gly 135	Gly	Gly	Ser	Gly	Gly 140	Glý	Gly	Ser	Gln
Ser 145	Val	Leu	Thr	Gln	Pro 150	Ala	Ser	Val	Ser	Gly 155	Phe	Pro	Gly	Gln	Ser 160
Ile	Thr	Ile	Ser	Cys 165	Thr	Gly	Thr	Ser	Ser 170	Asp	Val	Gly	Gly	Tyr 175	Asn
Tyr	Val	Ser	Trp 180	Tyr	Gln	Gln	His	Pro 185	Gly	Lys	Ala	Pro	Lys 190	Leu	Met
Ile	Tyr	Glu 195	Gly	Ser	Lys	Arg	Pro 200	Ser	Gly	Val	Ser	Asn 205	Arg	Phe	Ser
Gly	Ser 210	Lys	Ser	Gly	Asn	Thr 215	Ala	Ser	Leu	Thr	Ile 220	Ser	Gly	Leu	Gln
Ala 225	Glu	Asp	Glu	Ala	Asp 230	Tyr	Tyr	Cys	Ser	Ser 235	Tyr	Thr	Thr	Arg	Ser 240
Thr	Arg	Val	Phe	Gly 245		Gly	Thr	Lys	Leu 250	Thr	Val	Leu	Gly		

<210> 1303 <211> 241 <212> PRT <213> Homo sapiens <400> 1303 Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 5 1.0 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Glv Tyr 25 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Arg Ile Lys Ala Asn Ser Gly Ala Thr Asn Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Phe Thr Ala Asp Lys Leu Thr Arg Thr Val Phe Met Glu Leu Ile Ser Leu Arg Ser Glu Asp Ser Ala Met Tyr Tyr Cys 90 Ala Arg Asp Ile Asp Ile Gly Gly Asp Asp Ser Trp Gly Arg Gly Thr 105 100 Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 120 115 Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val 130 135 Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg 145 Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val 170 Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg

Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly 195 $$200\,$

Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser 210 215 220

Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu 225 230 235 240

Gly

<210> 1304 <211> 253 <212> PRT

<213> Homo sapiens

<400> 1304
Gin Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu
1 5 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met 20 25 30

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 65 70 75 80

Met Ile Ser Leu Arg Ala Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg 85 90 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 100 105 110

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr

165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 $$ 230 $$ 235 $$. 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 .

<210> 1305

<211> 249 <212> PRT

<213> Homo sapiens

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Val Ser Gly Gly Thr Phe Ala Ser Tyr 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Gly Thr Ile Pro Ile Phe Gly Ser Ala Lys His Thr Gln Lys Phe 50. 55

Gln Asp Arg Val Ser Ile Thr Ala Asp Lys Leu Thr Thr Thr Val Phe 65 70 75 80

Leu Glu Leu Thr Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys $85 \ 90 \ 95$

Ala Arg Pro Gln Gly Val Thr Leu Val Arg Gly Ala Glu Thr Asp Ala 100 \$105\$

Phe Ala Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 \$150\$

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln
165 170 175

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 195 200

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly $_{\rm 225}$ $_{\rm 230}$ $_{\rm 235}$ $_{\rm 240}$

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1306

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1306

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5101015151015101515101

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 $$100\,$

Asp Ile Trp Gly Lys Gly Thr Pro Val Thr Val Ser Ser Gly Gly Gly 115 . 120 125

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln 165 170 175

Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Asn Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr $210 \,$ $\,$ 215 $\,$ 220 $\,$

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230. 235

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1307

<211> 247 <212> PRT

<213> Homo sapiens

CZIJS HOMO BADIC

<400> 1307 Ala Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser

Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Lys Tyr Thr 20 25 30

Met His Trp Val Arq Gln Ala Pro Gly Gln Gly Pro Glu Trp Met Gly 35 40

Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe Gln 50 55 60

Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr Met 65 7.0

Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys Ala

Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe Asp 105 100

Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 135

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys

Pro Gly Gin Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 215

Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 235 240 225 230

Thr Lys Leu Thr Val Leu Gly 245

<210> 1308 <211> 246

<212> PRT

<213> Homo sapiens

<400> 1308

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Asn Asn Asn $20 \\ 25 \\ 30$

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 \$40\$

Gly Gly Ile Ile Pro Met Phe Gly Thr Ala Lys Tyr Ser Gln Asn Phe $_{50}$ $_{60}$

Gln Gly Arg Val Ala Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Ser 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ser Arg Asp Leu Leu Leu Phe Pro His Tyr Gly Met Asp Val

Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser 115 $$120\$

Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp 130 135 140

Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln

Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro \$165\$ \$170\$ \$170\$

Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser 180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Arg Asn Thr Ala Ser 195 200 205

Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys $210 \,$ $\,$ 215 $\cdot \,$ $\,$ 220

Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr 225 230 235 240

Lys Leu Thr Val Leu Gly

<210> 1309

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1309

Gln Ile Thr Leu Glu Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Leu Ile Trp Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ser His Tyr Asp Ile Leu Thr Arg Leu Asn Tyr Trp Tyr Phe $100 \,$ $\,$ $105 \,$ $\,$ $\,$ $110 \,$

Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile 145 \$150\$

Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp \$165\$ \$170\$ \$175\$

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val

180 185 . 190

Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser

Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu 225 230 235 240

Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1310 <211> 251

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1310

Gln Val Thr Leu Lys Glu Ser Gly Gly Gly Leu Val Lys Ala Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30

Ala Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ala Ile Ser Ser Ser Gly Asp Ser Ala Ser Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Thr Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr $_{65}$ 75

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Pro Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Phe His Arg

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser 115 . 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp $130\,$

Val Val Met Thr Gln Ser Pro Ser Phe Leu Ser Ala Phe Val Gly Asp 150 155 160 145 Thr Ile Thr Ile Thr Cys Arg Ala Ser Gln Gly Thr Tyr Asn Tyr Leu 165 170 175 Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr 180 185 Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly Ser 195 200 205 Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu 210 215 220 Asp Phe Gly Thr Tyr Tyr Cys Gln Gln Leu Ile Ser Tyr Pro Leu Thr 225 230 235 240 Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg 245 250 <210> 1311 <211> 252 <212> PRT <213> Homo sapiens <400> 1311 Gly Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 5 10 15 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Ser Asn 25 20 Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 40 Ser Val Ile Tyr Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys 60 55

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala

Arg Glu Asn Gly Asp Tyr Asp Ile Leu Thr Gly Gln Thr Phe Tyr Gly 100 105 $$_{\odot}$$

Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser Gly Gly
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val $165 \hspace{1cm} 170 \hspace{1cm} 175 \hspace{1cm}$

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr 180 185 . 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu 210 . 215 . 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg 225 230 235

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1312

<211> 249

<212> PRT <213> Homo sapiens

<400> 1312

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu 1 5 10 15

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Lys Tyr 20 25 30

Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met \$35\$ $$40^{\circ}$$

WO 02/02641 PCT/US01/19110 *** Table 450 ***

Gly Ile Ile Tyr Pro Gly Asp Ser Asn Thr Arg Tyr Ser Pro Ser Phe 50 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr $_{65}$ $$ 70 $$ 75 $$ 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys 85 90 95

Ala Arg Leu Tyr Tyr Asp Ile Leu Thr Gly Tyr His Trp Asp Ala Phe \$100\$

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 $$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Thr Val Arg Ile 145 \$150\$

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln 165 \$170\$

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn 180 $$185\ \ \, 190\ \ \,]$

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Gly Asn 195 $$ 200 $$ 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 \$230\$

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1313

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1313

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

1 5 10 15 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr 20 25 Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 4.0 Gly Tro Ile Ser Ala Tyr Asn Gly Asn Arq Asn Tyr Ala Gln Lys Leu 55 Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 70 75 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Val Arg Asp Gly Ile Asp Ile Leu Leu Val Pro Ala Ala Leu Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly 115 . 120 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr 135 Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp 170 Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly 180 185 Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200 Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu

235

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1314

<211> 246 <212> PRT

<213> Homo sapiens

<400> 1314

Glu Val Gln Leu Met Glu Thr Gly Gly Gly Leu Val Gln Pro Gly Gly - 1 5 10 15

Ser Leu Arg Ile Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr \cdot 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Gly Leu Ser Ser Gly Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Ile Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Ile Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Lys Ser Gln Trp Leu Glu His Asp Val Phe Asp Ile Trp Gly Arg

Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser 130 140

Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr 145 150150155

Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His 165 170 175

Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala

195 200 205

Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr 225 230235235

Lys Leu Thr Val Leu Gly

<210> 1315

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1315 Glu Val Gln Leu Val Gln Ser Gly Thr Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Asn Asn $20 \\ 25 \\ 30$

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$ \$40\$

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr $^{\circ}$ 65 $^{\circ}$ 70 $^{\circ}$ 75 $^{\circ}$ 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Arg Asp Tyr Asp Leu Leu Thr Arg Tyr Tyr Tyr Tyr Tyr 100 105 110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser $_{\rm 115}$ $_{\rm 120}$ $_{\rm 120}$

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser 130 135 140

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 $$ 150 $$. 155 $$ 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp 170 165 Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys 180 185 Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 200 Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu . Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val 225 230 235 240 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1316 <211> 251 <212> PRT <213> Homo sapiens <400> 1316 Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu 1 5 10 15 Thr Leu Ser Leu Thr Cys Asp Val Tyr Gly Gly Ser Phe Ser Gly Tyr 25 Tyr Trp Thr Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly Glu Ile Asp Tyr Ser Gly Ser Ala Asn Tyr Asp Pro Ser Leu Lys 55 Ser Arg Val Ala Met Ser Val Asp Thr Ser Lys Lys Gln Phe Ser Leu 70

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg Lys Gln Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Gln Leu Gly

Tyr Ala Phe Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser 115 \$120\$

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser 130 135

Glu Leu Ala Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 150 150 155

arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp \$165\$ \$170\$ \$175\$

Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys $180\,$

Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val 225 230 230

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1317

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1317

Gln Ile Thr Leu Lys Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ala Leu Ile Trp Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val $_{50}$ $_{60}$

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 Ala Arg Ser His Tyr Asp Ile Leu Thr Arg Leu Asn Tyr Trp Tyr Phe 105 100 Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 115 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Val Ile Tyr Glu 180 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 235 240 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1318 <211> 256 <212> PRT <213> Homo sapiens

<400> 1318

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

20	25	3.0

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ser Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr $_{\rm 65}$ $_{\rm 70}$ $_{\rm 75}$ $_{\rm 80}$

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \ 90 \ 95$

Ala Arg Asp Leu Gly Ser Phe Tyr Asp Ile Leu Thr Ala Leu Arg Leu 100 105 110

Glu Asn Tyr Gly Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val 115 120 125

Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly 145 150 155 160

Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly 165 \$170\$

Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys . $^\circ$ 180 $^\circ$ 185 $^\circ$ 190

Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg 195 200 205

Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly 210 215 220

Leu Gln Ala Glu Asp Glu Ala Gly Tyr Tyr Cys Ser Ser Tyr Thr Thr 225 230 235 240

Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 255

<210> 1319 <211> 250 <212> PRT

<213> Homo sapiens

<400> 1319
Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser His 20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val $_{\rm 35}$ $_{\rm 40}$ $_{\rm 45}$

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Gly Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \ 90 \ 95$

Ala Arg Asp Tyr Tyr Asp Ile Leu Thr Lys Leu Pro Tyr Gly Met Asp $100 \hspace{1cm} 105 \hspace{1cm} 110$

Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr 130 $_{\odot}$ $\,$ 140 $^{\prime}$

Gln Pro Ala Ser Val Ser Gly Ser Leu Gly Gln Ser Ile Thr Ile Ser 145 \$150\$

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp
165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Leu Ser Gly Ser Lys Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu

210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 235

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1320 <211> 251

<212> PRT

<213> Homo sapiens

<400> 1320

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly arg

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Phe Asn Asp Tyr \$20\$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Ser 65 75 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \cdot 85 90 95

Ala Arg Val Ser Pro Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Leu Pro $100\,$

His Ala Phe Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp 130 140

Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile Gly Asp 145 \$150\$

Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Gly Ile Tyr His Trp Leu 165 170 175

Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
180 185 190

Lys Ala Ser Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp 210 215 220

Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg 245 250

<210> 1321

<211> 249 <212> PRT

<213> Homo sapiens

<400> 1321

Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu 1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr 20 25 30

Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile $35 \hspace{1cm} 40 \hspace{1cm} 45 \hspace{1cm}$

Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys 50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu 65 70 75 80

Arg Gly Pro Arg Tyr Tyr Asp Ile Leu Thr Gly Tyr Arg Tyr Asn Trp \$100\$

Phe Asp Pro Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Val 130 135 Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly Asp Arg Val 145 150 155 Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp Leu Ala Trp 170 165 Tyr Gln Gln Lys Pro Gly Arg Ala Pro Lys Val Leu Ile Tyr Lys Ala 180 185 -Ser Thr Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser 200 205 Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe 210 . 215 Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Trp Thr Phe Gly 230 can ber tyr Ser Thr P Gln Gly Thr Lys Leu Glu Ile Lys Arg 245 <210> 1322 <211> 247 <212> PRT <213> Homo sapiens <400> 1322 Gln Val Thr Leu Lys Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly 10 Ser Leu Arg Leu Ser Cys Ser Ala Ser Gly Phe Thr Phe Gly Asp Tyr , 25 30 20 Gly Phe Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 40 Ser Ser Ile Gly Arg Gly Thr Ser His Arg Ser Tyr Ala Asp Ser Val 55 Lys Gly Arq Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ser Leu Tyr

70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys

Ala Lys Asp Ile Asp Asp Ile Leu Thr Gly Tyr Val Leu Gly Met Asp

Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys $145 \ \ \, 150 \ \ \, 155 \ \ \, 160$

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys \$165\$

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro . 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195 200

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly 225 \$230\$

Thr Lys Leu Thr Val Leu Gly

<210> 1323

<211> 248 <212> PRT

<213> Homo sapiens

<400> 1323

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly 1 $$ 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Asn Ser Tyr 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Gln Trp Val

35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe $100 \,$ $\,$ $105 \,$ $\,$ $\,$ $110 \,$

Asp Leu Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 \$170.\$

Lys Pro Gly Gln Ala Pro Glu Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Gly Asn Thr 195 \$200\$

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220 $$

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly

<210> 1324

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1324 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg 1 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Gly Asp Tyr

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Lys Gln Gln Trp Leu Pro Tyr Asp Ala Phe Asp Ile Trp Gly Gln
100 105 110

Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser 130 135 140

Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr 145 150 150 155

Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His 165 \$170\$

Pro Gly Lys Ala Pro Arg Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro 180 185 190

Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala 195 200 205

Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr

225 230 235 240

Lys Leu Thr Val Leu Gly 245

<210> 1325

<211> 250 <212> PRT

<213> Homo sapiens

<400> 1325

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala \$20\$

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala $50 \ \ 55 \ \ 60$

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr 65 70707580

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr 85 90 95

Tyr Cys Thr Thr Ala Tyr Tyr Asp Ile Leu Thr Gly Tyr Phe Phe Asp 100 $$105\$

Ile Trp Gly Lys Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr $130 \ \ 135 \ \ \ 140$

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glú Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1326

<211> 252 <212> PRT

<213> Homo sapiens

<400> 1326

Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu 1 $$ 10 $$ 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr 20 25 30

Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Pro Glu Trp Ile $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Lys Ile Thr His Ser Gly Ser Thr Thr Tyr Asn Pro Ser Leu Lys $50 \ \ 55 \ \ 60$

Ser Arg Val Thr Met Ser Val Asp Thr Ser Thr Asn Gln Phe Ser Leu 65 70 75 80

Lys Leu Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Arg Ala Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Phe Tyr Gly \$100\$

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr 145 150 155 Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val 165 170 Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr 185 Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser 200 Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu 215 Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg 225 230 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1327 <211> 257 <212> PRT <213> Homo sapiens <400> 1327 Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln 10 Thr Leu Ser Leu Thr Cys Asp Ile Ser Gly Asp Ser Val Ser Ser Asn . 20 Ser Ala Ala Trp Asn Trp Ile Arg Arg Ser Pro Ser Arg Gly Leu Glu 35 Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala 50 55 60 Val Ser Val Lys Ser Arg Ile Thr Ele Asn Pro Asp Thr Ser Lys Asn 70 Gln Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val

Tyr Tyr Cys Ala Arg Glu Arg Pro Tyr Tyr Asp Ile Leu Thr Gly Tyr $100 \\ 105 \\ 110$

Thr Val Thr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly 130 135

Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro 145 150 155 160

Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly 165 170 175

Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro 180 $$185\$

Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser 210 220

Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr 225 \$230\$ 235 \$240\$

Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu 245 \$250\$

Gly

<210> 1328

<211> 247

<212> PRT <213> Homo sapiens

<400> 1328

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Glu Lys Glu Pro Gly Ala

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr $\frac{1}{20}$ 25 30

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met

35 40 45

Gly Trp Ile Asn Ala Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Phe

Gln Gly Arg Val Thr Ile Thr Trp Asp Thr Ser Ala Thr Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Arg Asp Glu Tyr Asp Ile Leu Thr Gly Leu Leu Gln Gly Met Asp $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145 150 155 160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys 165 170 175

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195 200

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr $210 \\ \hspace{1.5cm} 215 \\ \hspace{1.5cm} 220 \\ \hspace{1.5cm}$

Cys Asn Ser Arg Asp Ser Ser Gly Asn Arg Val Val Phe Gly Gly Gly 225 \$230\$

Thr Lys Leu Thr Val Leu Gly 245

<210> 1329

<211> 252

<212> PRT <213> Homo sapiens

<400> 1329 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu 10 5 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser 20 25 Ser Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu 35 Trp Ile Gly Ser Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser 55 60 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe 70 Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr . 85 90 Cys Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Leu His Ala 100 Phe Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly 120 Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Ala Val Gly Gly Tyr Asn Tyr Val 165 170 Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser 200 Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu 215

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg

225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1330 <211> 247 <212> PRT

<213> Homo sapiens

<400> 1330

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 $$ 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 ' 90 95

Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr Gln
130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145 150 150 155

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys 165 170 175

Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala 195 200 205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215

Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly Gly 225 230235235

Thr Lys Leu Thr Val Leu Gly 245

<210> 1331

<211> 248

<212> PRT <213> Homo sapiens

<400> 1331

Gln Val Thr Leu Lys Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ile Asn Tyr \$20\$

Ala Met His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met 35 \$40\$

Gly Trp Ile Asn Ala Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Phe
50 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$. \$90\$

Ala Arg Glu His Tyr Asp Ile Leu Thr Gly Tyr Ser Leu Leu Gly Met $100 \,$

Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 170 Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 200 Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 215 Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 230 235 Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1332 <211> 251 <212> PRT <213> Homo sapiens Glu Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 Gly Met His Trp Val Arg Glm Ala Pro Gly Lys Gly Leu Glu Trp Val 3.5

Ala Leu Ile Trp Tyr Asp Gly Ser Lys Lys Tyr Tyr Ala Asp Ser Val 50 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr 55 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Gly Val Tyr Tyr Cys 85 90 95

Ala Arg Ser His Tyr Asp Ile Leu Thr Gly Leu Asn Tyr Trp Tyr Phe

Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 $$ 230 $$ 235 $$ 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1333

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1333

Gln Val Gln Leu Gln Gln Arg Gly Ala Gly Leu Leu Lys Pro Ser Glu 1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Glu Ser Phe Ser Gly Tyr
20 25 30

Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile 35 40 45

Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys

1,587

50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu 70 75

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Phe Tyr Tyr Cys Ala 85 . 90

Arg Gly Ser Leu Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn

Ala Phe Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser 135

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 185

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 200

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 235

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1334 <211> 254

<212> PRT

<213> Homo sapiens

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 10 5 1

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Leu Ser Asn Phe 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 \$40\$

Gly Ile Ile Asn Pro Ser Gly Gly Asn Thr Val Tyr Ala Gln Lys Phe 50 60

Gln Gly Arg Val Ser Met Thr Arg Glu Thr Ser Thr Ser Thr Val Tyr 65 70 75 80

Met Glu Met Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Gly Tyr Tyr Asp Ile Leu Thr Gly Gly Phe Tyr Tyr Tyr 100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser 115 \$120\$

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 150150155

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn $_{\rm 165}$ $\,$ $\,$ 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met \$180\$

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln $_{\rm 210}$ $\,$ $_{\rm 225}$

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

245

<210> 1335 <211> 249

<212> PRT <213> Homo sapiens

<400> 1335

Gln Met Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Gly 10

Ser Leu Arg Leu Ser Cvs Ala Ala Ser Glv Phe Thr Phe Glv Asp Tvr 25

Ala Met His Trp Val Arq Gln Val Pro Gly Lys Gly Leu Glu Trp Val 40

Ser Val Ile Tyr Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 90

Arg Gly Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Leu Val Tyr Tyr Gly

Met Asp Val Trp Gly Arg Gly Thr Val Val Thr Val Ser Ser Gly Gly 115

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu 135 130 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 155

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln 165 170

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 200

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1336

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1336

Gly Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Gly Tyr Thr Phe Thr Asp Tyr 20 25 30

Tyr Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Trp Ile Asn Pro Asn Asn Gly Ala Thr Asn Tyr Ser Gln Lys Leu 50 55 60

Gln Gly Arg Val Thr Leu Asn Arg Asp Thr Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Gly Leu Arg Phe Glu Asp Thr Ala Val Tyr Phe Cys $85 \hspace{1cm} 90 \hspace{1cm} 95 \hspace{1cm}$

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 \$135\$

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 150 155

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 185 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp . 215 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1337 <211> 253 <212> PRT <213> Homo sapiens <4005 1337 Gin Val Gin Leu Val Glu Ser Gly Gly Gly Leu Glu Gin Pro Gly Gly 5 10 1.5 Ser Leu Thr Leu Ala Cys Ala Ala Ala Gly Phe Ser Phe Asn Ser Tyr 20 25 Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 Ala Val Ile Ser Asp Asp Gly Ser His Lys Tyr Tyr Ala Asp Ser Val 50 55 60 Lys Gly Arg Phe Thr Ile Ser Arg Asp Ser Ser Lys Asn Thr Val Tyr 65 70 75 Leu Gln Met Asn Ser Leu Arg Thr Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 -95 Ala Arg Asp Gln Gln Tyr Asp Ile Leu Thr Gly Tyr His Ile Asp Tyr 100 105 110

Tyr Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 $$140\$

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 \$150\$

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp \dot{V} al Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly
195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 $$ 230 $$ 235 $$ 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1338

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1338

Val Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45 .

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr

1593 .

65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \,$ $105 \,$ $110 \,$

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 $$ 150 $$ 150 $$ 155 $$ 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1339

<211> 253

<212> PRT

<213> Homo sapiens

Pro Leu Ser Leu Thr Cys Val Ile Ser Gly Asp Ser Ser Ser Ser Tyr 20 25 30

Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile 35 40 45

Gly Asn Ile Asn Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys 50 55 60

Asn Arg Ile Thr Ile Ser Val Asp Ala Ser Lys Asn Gln Leu Ser Leu 65 70 75 80

Lys Leu Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg His Val Arg Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Arg Gly His $100 \ \ 105 \ \ 110$

His Phe Asp Tyr Trp Gly Arg Gly Thr Leu Ile Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 \$150\$

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 $200\,$ 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230235235

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1340

<211> 254 <212> PRT <213> Homo sapiens

<400> 1340

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg

Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Glu Arg Ile Lys Asn Tyr Gly Asp Ser Val $_{50}$

Lys Gly Arg Phe Thr Gly Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Glu Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$

Ala Thr Glu Val Arg Asn Tyr Asp Leu Leu Thr Arg Ser Tyr Leu Ala 100 105 110

Gly Pro Leu Asp Asn Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser 115 \$120\$

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 \$150\$

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn \$165\$

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln . 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230230235

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1341

<211> 250 <212> PRT

<213> Homo sapiens

<400> 1341

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gly Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Ser Val Arg Asn Asp Gly Ser Asn Thr Tyr Tyr Thr Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Thr Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Arg Thr Glu Ser Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Trp Pro \$100\$

Ser Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 \$120\$

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 145 150150155

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe \$165\$

Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn 180 185 Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly 200 Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala 215 Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1342 <211> 251 <212> PRT <213> Homo sapiens <400> 1342 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 10 5 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Ser Asn Tyr 2.0 25 Val Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met . 35 4.0 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 90 85

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1343

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1343

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 $$ 15

. Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe 50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys

85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly . 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Glu Ser Val Ser Gly Ser Pro Ala Gln Ser Leu Thr Val 145 150155155

Ser Cys Thr Gly His Ser Ser Ser Val Gly Gly Tyr Asn Tyr Val Trp \$165\$ \$170\$ \$175\$

Trp Tyr Gln Gln Pro Ala Asp Lys Ala Val Gln Val Met Asn Tyr Lys \$180\$

Gly Ser Lys Arg Ser Ser Met Val Ser Asn Arg Phe Ser Gly Cys Lys

Ser Gly Thr Ala Ala Leu Ile Thr Ile Ser Gly Gln Gln Asp Glu Glu 210 225 220

Glu Ala Asp Tyr Cys Tyr Ser Ser Tyr Thr Ser Ser Ser Pro Leu Val 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1344

<211> 250 <212> PRT

<213> Homo sapiens

<400> 1344

Lys Val Gln Leu Val Gln Ser Gly Gly Gly Gln Val Val Arg Gly Gly
1 10 15

Ser Leu Arg Leu Ser Cys Lys Ala Ser Gly Phe Thr Phe Arg Lys Tyr \$20\$

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ser Ala Ile Ser Gly Asp Gly Ser Ser Arg Ser Tyr Ala Asp Ser Val 50 60

Arg Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Glu Asn Thr Val Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Arg Thr Glu Ser Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Trp Pro \$100\$

Ser Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu 130 135

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 145 150 150 155

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe \$165\$

Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn 180 \$185\$

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly 195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala 210 \$215\$

Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Vál Leu Gly 245 250

<210> 1345 <211> 251

<212> PRT

<213> Homo sapiens

)> 13 Val		Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lуs	Pro	Gly 15	Ala	
Ser	Val	Lys	Val 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Tyr	Thr	Phe	Thr 30	Lys	Tyr	
Thr	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Pro 45	Glu	Trp	Met	
Gly	Trp 50	Ile	Asn	Gly	Gly	Ser 55	Gly	Asp	Thr	Lys	Tyr 60	Ser	Arg	ГÀЗ	Phe	
Gln 65	Gly	Arg	Val	Thr	Ile 70	Thr	Lys	Asp	Thr	Ser 75	Ala	Ser	Ala	Ala	Tyr 80	
Met	Glu	Leu	Ser	Ser 85	Leu	Gly	Ser	Glu	Asp 90	Thr	Ala	Leu	Tyr	Tyr 95	Сув	
Ala	Arg	Ala	Thr 100	Tyr	Asp	Pro	Leu	Thr 105	Gly	Tyr	Ser	Phe	Asp 110	Gly	Phe	
Asp	Ile	Trp 115	Gly	Gln	Gly	Thr	Leu 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gly	
Gly	Ser 130	G1y	Gly	Gly	Gly	Ser 135	Gly	Gly	Gly	Gly	Ser 140	Gln	Ser	Val	Leu	
Thr 145	Gln	Pro	Ala	Ser	Val 150	Ser	Gly	Ser	Pro	Gly 155	Gln	Ser	Ile	Thr	Ile 160	
Ser	Cys	Thr	Gly	Thr 165	Ser	ser	Asp	Val	Gly 170	Gly	Tyr	Asn	Tyr	Val 175	Ser	
Trp	Tyr	Gln	Gln 180	His	Pro	Gly	Lys	Ala 185	Pro	Lys	Leu	Met	Ile 190	Tyr	Gļu	
Gly	Ser	Lys 195	Arg	Pro	Ser	Gly	Val 200	Ser	Asn	Arg	Phe	Ser 205	Gly	Ser	Lys	
Ser	Gly 210	Asn	Thr	Ala	Ser	Leu 215	Thr	Ile	Ser	Gly	Leu 220	Gln	Ala	Glu	Asp	
Glu 225	Ala	Asp	Tyr	Tyr	Cys 230	Ser	Ser	Tyr	Thr	Thr 235	Arg	Ser	Thr	Arg	Val 240	

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1346 <211> 251 <212> PRT <213> Homo sapiens <400> 1346 Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 15 5 10 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp His 20 25 Tyr Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40. 45 Gly Arg Ala Arg Asn Lys Ala Asn Ser Tyr Thr Ile Glu Tyr Ala Ala 50 55 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser 75 65 70 Leu Phe Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr 85 90 Tyr Cys Ala Arg Ala Pro Tyr Asp Ile Leu Thr Gly Tyr Ser Asp Tyr 100 . 105 110 Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser

120 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser 130 135 140

1.1.5

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 150 155 . 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp 170 175

Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys 180

Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser . 195 \$200\$

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val 225 230. 235 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1347 <211> 249

<211> 249 <212> PRT

<213> Homo sapiens

<400> 1347

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Asn Phe Asn Ser Tyr

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gln Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Tyr Asp Asp Thr Ala Met Tyr Tyr Cys 85 90 95

Ala Arg Asp Ser Asp Ala Arg Leu Ala Ala Leu Asp Ala Phe Asp Ile
100 105 110

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln 130 135 140

Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys 145 150 155 160

Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln 165 170 175

Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr

Ser Gly Ser Leu Val Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Asp 210 215

Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1348

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1348

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Thr Gly Ser

Ser Val Lys Leu Ser Cys Arg Ala Ser Gly Tyr Gly Phe Ala Arg His 20 25 30

Tyr Leu His Trp Val Arg Gln Ala Pro Gly Gln Ala Leu Glu Trp Met 35 40 45

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ser Thr Ala Phe $_{65}$ $$ 70 $$ 75 $$ 80

Leu Asp Val Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Gln Phe Gly Val Leu Pro Asn Tyr Tyr His Met Asp

100 105 110

Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 . 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr 130 135 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser 145 150 155 160

Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr \$165\$ \$170\$

Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp \$180\$

Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly
195 200 205

Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala 210 215 220

Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1349

<211> 253 <212> PRT

<213> Homo sapiens

(213) HOMO Sapiem

<400> 1349
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr
20 25 30

Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gln Gly Arg Leu Thr Ile Thr Ala Asp Glu Leu Thr Lys Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Pro Glu Asp Thr Ala Ile Tyr Tyr Cys 85 90 95

Ala Arg Asp Ile Lys Arg Tyr Asn Ser Asn Trp Pro Tyr Tyr Asp Tyr 100 105 110

Tyr Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val \$165\$

Asn Trp Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr 180 185 190

Asn Asn Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser 195 \$200\$

Lys Ser Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu $210 \,$ $\,$ $215 \,$ $\,$ $220 \,$

Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1350

<211> 254

<212> PRT

<213> Homo sapiens

.....

<400> 1350
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Ser Ser His $20 \\ 25 \\ 30$

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Asn Ile Lys Gln Asp Gly Ser Glu Glu His Tyr Val Asp Ser Val 50 . 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ala Leu Tyr $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Leu Gln Met Asp Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 95 95

Ala Arg Asp Lys Gln Tyr Tyr Asp Ile Leu Thr Gly Asp Pro Val Glu $100 \,$ $105 \,$ $110 \,$

Gly Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 150150155

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn $165 \hspace{1cm} 170 \hspace{1cm} 175 \hspace{1cm}$

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 \$230\$

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
245 . 250

<210> 1351 <211> 251 <212> PRT <213> Homo sapiens <400> 1351 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 5 10 15 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ile Phe Thr Asp Phe 20 25 Ala Met His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Val 3.5 40 Gly Trp Ile Asn Ala Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Phe 50 55 60 Gln Asp Arg Val Ile Ile Thr Arg Asp Thr Ser Ala Ser Thr Val Tyr 75 65 70 80 Met Glu Leu Ser Ser Pro Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95 Ala Arg Ala Thr Tvr Asp Pro Leu Thr Gly Tvr Ser Phe Asp Gly Phe 100 105 110 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 150 155 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Phe Gly Leu Gln Ala Glu Asp 215 210 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1352 <211> 247 <212> PRT <213> Homo sapiens <400> 1352 Gln Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Gly Lys Tyr Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 70 Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 90 85 Ala Arg Ala Gly Ser Ser Leu Val Thr Tyr Gly Thr Asp Val Trp Gly 105 Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly 115 120 Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro 130 135 Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly 145 150

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln
165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg 180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly 225 230 235 240

Thr Lys Leu Thr Val Leu Gly 245

<210> 1353

<211> 253

<212> PRT <213> Homo sapiens

<400> 1353

Glu Val Gln Leu Val Gln Ser Gly Ser Glu Leu Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg Tyr
20 25 30

Pro Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile 35 40 45

Gly Arg Ile Asn Thr Asn Ile Gly Asp Pro Thr Tyr Ala Gln Gly Phe

Glu Gly Arg Phe Val Phe Ser Leu Asp Thr Ala Val Lys Thr Ala Tyr 65 70 75 80

Leu Gln Ile Asn Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Ser Asp Asp Tyr Asp Ile Leu Thr Gly Asn Tyr Val Gly Ser

Leu Leu Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly

115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Ser Gly Gln Ser Ile 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly
195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1354

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1354

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Asn Tyr \$20\$

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met \$35\$ \$40\$

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Arg Asn Tyr Ala Gln Lys Leu 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys
. 85 90 95

Ala Arg Asp Gly Arg Leu Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Ala

Arg Asp Tyr Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr 115 120 125

Val Ser Asn Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly 130 $$140\$

Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro 145 150 155 160

Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly \$165\$

Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro $180 \ \ \, 190 \ \ \,$

Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser 210 215 220

Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr 225 230235235

Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu \$245\$

Gly

<210> 1355

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1355

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Ser Tyr \$20\$

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Ser Leu Glu Trp Met 35 \$40\$

Gly Trp Ile Asn Thr Gly Asn Asp Asn Thr Lys Tyr Ser Arg Lys Phe 50

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe $100 \\ 0.05$

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 $$ 150 $$ 150 $$ 155 $$ 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 $$170\$

Trp Tyr Gln Gln His Fro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 240 \hspace{1.5cm}$

Phe Gly Gly Gly Thr Lys Leu Thr Ala Leu Gly 245 250

<210> 1356 <211> 259 <212> PRT <213> Homo sapiens <400> 1356 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 20 25 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Gln Asn His Pro Ile Tyr Asp Ile Leu Thr Gly Tyr Tyr 100 105 Val Pro Thr Gly Pro Leu Glu Leu Lys Asn Trp Gly Arg Gly Thr Leu 120 Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly 135 Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly 150 155 Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp 170 165 Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys 180 185

205

Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val

200

Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr 210 \$215\$

Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser 225 \$230\$

Tyr Thr Thr Arg Gly Thr Arg Val Phe Gly Gly Gly Ala Lys Leu Thr $245 \hspace{1cm} 255 \hspace{1cm} 255 \hspace{1cm}$

Val Leu Gly

<210> 1357

<211> 251

<212> PRT <213> Homo sapiens

<400> 1357

Ser Leu Arg Leu Ser Cys Ala Thr Ser Gly Phe Thr Phe Ser Asp Tyr 20 25 30

Arg Met His Trp Val Arg Gln Ala Pro Ala Lys Gly Leu Glu Trp Val

Arg Gly Arg Phe Ala Ile Ser Arg Asp Asn Ser Lys Ser Thr Leu Tyr 65 70 75 80

Leu Gln Leu Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Thr Glu Val Arg Asn Tyr Asp Leu Leu Thr Arg Ser Tyr Leu Ala 100 105 110

Gly Pro Leu Asp Asn Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser 115 \$120\$

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser 130 \$135\$

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 150 150 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp $_{\rm 165}$ $_{\rm 175}$ $_{\rm 175}$

Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys 180 185 190

Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 $$ 215 $$ 220

Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Gly Gly Asn His Val Val 225 230 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1358

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1358

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Thr Val Ser Cys Lys Ala Ser Gly Tyr Thr Leu Thr Asn Tyr 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met

Gly Ile Ile Asn Pro Asn Gly Gly Arg Thr Thr Tyr Gly Gln Lys Phe

Gln Gly Arg Val Thr Met Thr Ser Asp Thr Ser Thr Ser Thr Val Tyr $65 7075$ 80

Met Gln Leu Ser Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{0.25in} 90 \hspace{0.25in} 95$

Ala Arg Asp Met Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Ala Phe

100 105 110

Asp Ile Trp Gly Arg Gly Thr Met Ile Thr Val Ser Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Ala Gln Ser Val 130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr 145 150 155 160

Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Thr Gly Tyr Asp Val \$165\$. \$170\$.

His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Tle Tyr 180 185 190

Gly Tyr Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser 195 200 205

Gln Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Pro Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Gly Leu Arg Ala 225 230235

Ser Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly \$245\$

<210> 1359

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1359

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Thr Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Tyr Pro Phe Ser Ser Tyr \$20\$

His Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Ile Ile Asn Pro Asn Gly Gly Ser Thr Lys Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arq Val Thr Met Thr Ser Asp Thr Ser Thr Ser Thr Val Tyr 70 Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys 90 Ala Arg Asp Tyr Tyr Asp Val Leu Thr Gly Phe Ser Leu Asp Gly Met 105 100 Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val 130 135 Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr 145 150 155 160 Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Thr Gly Tyr His Val 165 170 175 His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr 180 185 190 Gly Asn Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser 195 200 205 Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu 210 215 220 Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Thr 225 230 235 240 Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly 245 250 <210> 1360 <211> 248 <212> PRT

<213> Homo sapiens

<400> 1360

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu 1 5 10 15

Thr Leu Ser Leu Ser Cys Thr Val Ser Gly Gly Ser Ile Arg Ser Tyr 20 Tyr Trp Ser Trp Ile Arq Gln Ser Pro Gly Arg Gly Leu Glu Trp Ile 40 Gly His Ile Tyr His Ser Gly Ser Thr Asp Tyr Asn Pro Ser Leu Arg 55 Ser Arg Val Thr Met Ser Ile Asp Thr Ser Lys Asn Gln Phe Ser Leu Asn Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp His Tyr Asp Val Leu Thr Gly Ser Tyr Leu Gln Ala Phe Asp 1.00 Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Asp Ile Gln 135 Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val 150 155 145 Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Arg Tyr Leu Asn Trp 165 170 Tyr Gln Gln Lys Pro Gly Arg Ala Pro Arg Leu Leu Ile Phe Val Thr 180 Ser Ser Leu His Ser Asp Val Pro Ser Arg Phe Ser Gly Ser Gly Ser 200 195 Gly Thr Asp Phe Ser Leu Thr Ile Ser Asn Leu Gln Pro Glu Asp Phe 210 215 Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Asp Pro Thr Phe Gly Gln 225 235

Gly Thr Arg Leu Glu Ile Lys Arg

<210> 1361 <211> 253 <212> PRT <213> Homo sapiens <400> 1361 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu 7 5 10 Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Asp Ser Ile Ser Arg Ala 30 20 25 Pro Tyr Tyr Trp Asn Trp Ile Arg Lys Thr Pro Gly Lys Gly Leu Glu 35 40 Trp Ile Gly Tyr Ile Ser Asn Ser Arg Gly Thr Asn Tyr Asn Pro Ser 60 50 55 Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Thr Asn Gln Phe 75 65 70 Tyr Leu Lys Val Asn Ser Ala Thr Ala Ala Asp Thr Ala Val Tyr Tyr 85 90 95 Cys Ala Arg Gly Arg Tyr Asp Phe Leu Thr Gly Tyr Leu Arg Asn Phe 100 105 110 . Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 115 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val 130 135 Leu Thr Gln Pro Pro Ser Val Ser Gly Ser Leu Gly Gln Ser Val Thr 155 150 Ile Ser Cys Thr Gly Ser Ser Ser Asp Ile Gly Arg His Asm Phe Val 170 165 Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr 185 Asp Val Thr Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser

Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu Gln Ala Asp $210 \\ \hspace*{1.5cm} 215 \\ \hspace*{1.5cm} 220 \\ \hspace*{1.5cm}$

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Phe Leu Gly Ser Asn Asn Phe 225 230235235

Asp Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 1362 <211> 252

<212> PRT

<213> Homo sapiens

<400> 1362 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly 1 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Pro Tyr

Thr Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ser Ser Ile Ser Ser Ser Ser Asn Tyr Ile Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr 65 70 75 80

Ala Arg Gly His Tyr Asp Ile Leu Thr Gly Tyr Tyr Phe Gly Phe Asp 100 105 110

Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ala Val Leu 130 135 140

Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile 145 150 155 160

Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His 165 170 175

Trp Tyr Gln His Val Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ala 180 185 190

Lys Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Thr

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Gln Ser Ser Asp Ser Arg Leu Arg Gly Ser 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1363

<211> 248 <212> PRT

<213> Homo sapiens

<400> 1363

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Thr Ala Ser Gly Gly Ser Phe Ser Ser Asn 20 25 30

Pro Phe Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Lys Thr Val Tyr 65 70 75 80

Met Glu Leu Ser Asn Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Ala Arg Asp Met Lys Val Tyr Tyr Lys Tyr Ala Leu Asp Val Trp Gly

Arq Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly

115 120 125

Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Val Thr Gln Pro 130 135 140

Pro Ser Ala Ser Gly Pro Pro Gly Gln Arg Val Thr Ile Ser Cys Ser 145 150 155 160

Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln
165 170 175

Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr His Asn Asn Gln Arg 180 \$180\$

Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser 195 200 205

Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu Ala Glu Tyr 210 215 220

Tyr Cys Gln Ser Tyr Asp Asn Asn Leu Arg Gly Ser Val Phe Gly Gly 225 230235235

Gly Thr Lys Val Thr Val Leu Gly 245

<210> 1364

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1364

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 5 . 10 . 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Ala Met Thr Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Val 35 40 45

Ala Thr Ile Ser Asp Ser Ala Asp Arg Lys Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Gly Asn Ser Arg Asn Met Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Asp Leu Arg Tyr Asp Ile Leu Thr Gly Tyr His Asp Ala Phe \$100\$

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val 130 135 140

Val Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln Ser Val Thr 145 $$ 150 $$ 155 $$ 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr Asn Tyr Val $_{165}$ $_{175}$

Ser Trp Tyr Gln Gln His Pro Gly Lys Val Pro Lys Leu Met Ile Tyr 180 185 190

Asp Val Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu Gln Ala Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Ala Gly Ser Ser Thr His 225 230 235 240

Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly \$245\$

<210> 1365

<211> 258

<212> PRT

<213> Homo sapiens

<400> 1365

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Ile Asp Asp 20 25 30 .

Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 3.5 Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly His Ser Ser Tyr His Ser Ala Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Ile Gly Thr Ser Ser Asp Ile Gly Ala Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val Ile Arg Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Asp Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Ser Thr Thr Leu Val Phe Gly Thr Gly Thr Lys Val Thr Val

Leu Gly

<210> 1366 <211> 252 <212> PRT <213> Homo sapiens <400> 1366 Glu Val Gln Leu Val Gln Ser Gly Thr Glu Val Lys Lys Pro Gly Ala 5 10 Ser Val Thr Leu Thr Cys Lys Ala Ser Gly Tyr Thr Phe Asn Asn Tyr 20 25 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 Gly Thr Ser Ser Pro Arg Gly Thr Asn Thr Asn Tyr Ala Lys Lys Phe Gln Gly Arg Val Thr Ile Ser Ala Asp Lys Leu Thr Asn Thr Ala Tyr 70 Met Glu Val Ser Ser Leu Arg Ser Asp Asp Thr Ala Ile Tyr Tyr Cys 85 95 Ala Arg His Arg Arg Ala Arg Val Val Pro Val Pro Gly Ala Met 100 105 110 Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val 130 135 140 Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln Arg Val Thr 145 150 155 160 Ile Ser Cys Ser Gly Ser Ser Ser Asn Val Gly Thr Ser Thr Val Asn 165 170 . 175 Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro Asn Leu Leu Ile Phe Lys 180 190 185

Asn Ser Gln Arg Pro Ser Gly Val Pro Glu Arg Phe Ser Gly Ser Lys 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp 215 . 220 210 Glu Ala Asp Tvr His Cvs Ala Thr Trp Asp Asp Asn Leu Asn Ala Trp 230 235 240 Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 - <210> 1367 <211> 250 <212> PRT <213> Homo sapiens <400> 1367 Gly Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ala 15 Ser Val Lys Val Ser Cys Thr Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 25 20 Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile 4.0 Gly Trp Ile Ser Ala His Asn Gly Gln Thr Lys Tyr Ala Glu Lys Phe 55 60 Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr 75 65 70

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Asp Asn

Tyr Met Asp Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu 130 135 140

Leu Thr Gln Asp Pro Ala Val Sex Val Ala Leu Gly Gln Thr Val Arg

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Ile Trp Phe $165 \\ 170 \\ 175$

Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn 180 185 190

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly 195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala 210 215 220

Asp Tyr Tyr Cys His'Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1368

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1368

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Arg Leu Ser Ala Gly Thr Phe Thr Asn Arg 20 25 30

Tyr Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp 35 40 45

Val Gly Gly Ile Met Pro Phe His Arg Thr Thr His Tyr Ala Gln Lys 50 55 60

Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ser Thr Ala $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Phe Met Glu Met Thr Ser Leu Arg Tyr Glu Asp Thr Ala Val Phe Tyr 85 90 95

Cys Ala Arg Arg Ser Met Ile Val Val Thr Thr Ala Pro Tyr Asp Ala 100 105 110

Phe Asp Leu Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly

115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser 130 135 140

Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Gly Val 145 \$150\$

Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val \$165\$

Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr 180 185 190

Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser

Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Gly 225 230 235 240

Trp Leu Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1369

<211> 246

<212> PRT <213> Homo sapiens

<400> 1369

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Val Ser Gly Tyr Arg Phe Leu Ser Tyr $20 \\ 25 \\ 30$

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 . 40 45

Gly Trp Ile Ser Thr Asp Ser Gly Arg Thr Lys Gln Ala Gln Asn Phe 50 55 60

Gln Gly Arg Val Ile Met Thr Thr Asp Thr Leu Thr Thr Thr Val Phe $_{65}$ $$ 70 $$ 75 $$ 80

Leu Glu Val Arg Asn Leu Arg Ser Asp Asp Ser Ala Val Tyr Tyr Cys $85 \ \ 90 \ \ 95$

Ala Arg Asp Thr Val Arg Ser Gly Gly Met Asp Val Trp Gly Gln Gly
100 105 110

Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser 130 135 140

Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser 145 $^{\circ}$ $\,$ 150 $\,$ 155 $\,$ 160

Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro $165 \\ 170 \\ 175$

Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn Asn Gln Arg Pro Ser 180 185 190

Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser 195 200 205

Ala Ala Trp Asp Asp Ser Leu Asn Gly Tyr Val Phe Gly Thr Gly Thr 225 \$230\$

Lys Val Thr Val Leu Gly 245

<210> 1370

<211> 250 <212> PRT

<213> Homo sapiens

<400> 1370

Gly Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Thr Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile Gly Trp Ile Ser Ala His Asn Gly Gln Thr Lys Tyr Ala Glu Lys Phe 55 Gln Asp Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr 75 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Asp Asn Tyr Met Asp Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly 115 120 Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu . 130 135 Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg 145 150 155 Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe 165 170 Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn 180 185 190 Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly 195 200 Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala 210 215 Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe 235 225 230 Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1371 <211> 244

<212> PRT <213> Homo sapiens

<400> 1371

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Tyr Thr Phe Arg Glu Tyr \$20\$

Gly Ile Ile Trp Ala Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $_{\rm 35}$ $_{\rm 40}$ $_{\rm 45}$

Gly Trp Ile Ser Gly Gln Asn Gly Lys Thr Asn Leu Ala Gln Arg Phe $_{\rm 50}$ $_{\rm 60}$

Gln Gly Arg Val Thr Ile Thr Thr Asp Thr Leu Thr Ser Thr Ala Phe $_{\rm 65}$ $$ 70 $$ 75 $$ 80

Met Glu Leu Thr Asn Leu Arg Val Asp Asp Thr Ala Met Tyr Tyr Cys 85 90 95

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly 115 120 125

Gly Gly Ser Ala Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser 130 135 . 140

Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser 145 150 150

Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly 165 170 175

Lys Ala Pro Lys Leu Met Ile Phe Asp Val Thr Ser Arg Pro Ser Gly $$180\$

Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Ala Asn Thr Ala Ser Leu 195 200 205

Ser Tyr Thr Ser Ser Asp Thr Tyr Val Phe Gly Thr Gly Thr Lys Leu 225 \$230\$

Thr Val Leu Gly

<210> 1372 <211> 244

<212> PRT <213> Homo sapiens

<400> 1372

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 $$ 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Tyr Thr Phe Arg Glu Tyr $20 \hspace{1cm} 25 \hspace{1cm} 30 \hspace{1cm}$

Gly Ile Ile Trp Ala Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 $$40\$

Gly Trp Ile Ser Gly Gln Asn Gly Lys Thr Asn Leu Ala Gln Arg Phe 50 60

Gln Gly Arg Val Thr Ile Thr Thr Asp Thr Leu Thr Ser Thr Ala Phe $_{65}$ $$ 70 $$ 75 $$ 80

Met Glu Leu Thr Asn Leu Arg Val Asp Asp Thr Ala Met Tyr Tyr Cys 85 90 95

Ala Ala Ser Gly Pro Gly Trp Phe Asp Pro Trp Gly Gln Gly Thr Leu $100 \hspace{1cm} 105 \hspace{1cm} 110 \hspace{1cm}$

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
115 120 125

Gly Gly Ser Ala Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser 130 135 140

Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser 145 150 155 160

Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Thr Gly 165 170 175

Lys Ala Pro Lys Leu Met Ile Phe Asp Val Thr Ser Arg Pro Ser Gly

Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Ala Asn Thr Ala Ser Leu 195 200 205

Thr Ile Ser Gly Leu Gln Asp Glu Asp Glu Ala Asp Tyr Tyr Cys Thr 210 220

Ser Tyr Thr Ser Ser Asp Thr Tyr Val Phe Gly Thr Gly Thr Lys Leu 225 230 235 240

Thr Val Leu Gly

<210> 1373

<211> 251

<212> PRT <213> Homo sapiens

<400> 1373

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly
35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 $\,$ 55 $\,$ 60 $\,$

Asp Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Glu Leu Gly Ser Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100 \hspace{1.5cm} 100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Val

130 135 140

Ile Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly Thr Val Thr Ile 145 \$150\$

Thr Cys Gly Leu Thr Ser Gly Ser Val Thr Thr Ser Tyr Tyr Pro Thr 165 170 175

Trp Tyr Gln Gln Ala Pro Gly Gln Ala Pro Arg Thr Leu Ile Tyr Ser

Thr Lys Ile Arg Ser Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 195 200 200 205

Ile Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp Asp 210 215 220

Glu Ser Asp Tyr Tyr Cys Leu Leu Tyr Met Gly Ser Gly Thr Arg Val 225 230235 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 1374

<211> 251

<212> PRT <213> Homo sapiens

<400> 1374

Gin Val Gin Leu Val Gin Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Asn Phe Asn Ser Tyr \$20\$

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ 40 \ \ 45$

Gly Arg Ile Ile Pro Asn Val Gly Thr Ala Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr 65 . 70 . 75

Leu Glu Val Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Ala Glu Cys Phe \$100\$

Gln Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Leu Ser Ser 130 135 140

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val 145 $$ 150 $$ 155 $$ 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Asn Tyr Tyr Pro Ser Trp $_{\rm 165}$ $_{\rm 170}$ $_{\rm 170}$

Tyr Gln Gln Met Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys $$\rm 180$ 180 190

Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser 195 $200\,$

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val 225 \$230\$

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 $\,$ 250

<210> 1375

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1375

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 . 15

Pro Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Thr Arg Tyr \$20\$ \$25\$ \$30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ \, 40 \ \ \, 45 \ \ \,$

Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Ser Thr Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 Ala Arg Asp Asn Tyr Asp Ile Leu Thr Gly Tyr Ser Arg Arg Phe Asp 105 Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 115 Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Asn Phe Met 135 140 Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys Thr Val Thr 150 155 Ile Ser Cys Thr Arg Ser Ser Gly Asn Ile Ala Ser Lys Tyr Val Gln 165 170 Trp Tyr Gln Gln Arg Pro Asp Ser Ala Pro Thr Thr Val Ile Tyr Glu 180 . 185 Asn Asn Arg Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Ile 200 195 Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly Leu Lys Thr 210 215

Tyr Val Phe Gly Ala Gly Thr Lys Leu Thr Val Leu Gly 245 250

230

Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Ser Ala Leu

235

<210> 1376

225

<211> 252 <212> PRT

<213> Homo sapiens

<400> 1376

Gln 1	Val	Gln	Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser
Ser	Val	Lys	Val 20	Ser	Cys	Arg	Ala	Ser 25	Gly	Gly	Ser	Phe	Asn 30	His	Ala
Ile	Ser	Trp 35	Val	Arg	Gln	Ala	Pro 40	Gly	Arg	Gly	Leu	Glu 45	Trp	Met	Gly
Gly	Ile 50	Leu	Pro	Met	Tyr	Gly 55	Thr	Ala	Asn	Tyr	Ala 60	Gln	Lys	Phe	Gln
Gly 65	Arg	Val	Thr	Ile	Thr 70	Ala	Asp	Lys	Leu	Thr 75	Asn	Thr	Val	Tyr	Met 80
Asp	Leu	Ser	Arg	Leu 85	Arg	Tyr	Glu	Asp	Thr 90	Ala	Val	Tyr.	Tyr	Cys 95	Ala
Arg	Glu	Leu	Gly 100	Leu	Ser	Ile	Val	Gly 105	Ala	Thr	Thr	Gly	Ala 110	Leu	Asp
Met	Trp	Gly 115	Gln	Gly	Thr	Leu	Val 120	Thr	Val	Ser	Ser	Gly 125	Gly	Gly	Gly
Ser	Gly 130	Gly	Gly	Gly	Ser	Gly 135	Gly	Gly	Gly	Ser	Ala 140	Leu	Ser	Tyr	Val
Leu 145	Thr	Gln	Pro	Pro	Ser 150	Val	Ser	Lys	Gly	Leu 155	Arg	Gln	Thr	Ala	Thr 160
Leu	Thr	Cys	Thr	Gly 165	Asn	Ser	Asn	Asn	Val 170	Gly	Asn	His	Gly	Ala 175	Thr
Trp	Leu	Gln	Gln 180	His	Gln	Gly	His	Pro 185	Pro	Lys	Leu	Leu	Ser 190	Tyr	Arg
Asp	Lys	Asn 195	Arg	Pro	Ser	Gly	Leu 200	Ser	Glu	Arg	Phe	Ser 205	Pro	Ser	Arg
ser	Gly 210	Asn	Thr	Ala	Ser	Leu 215	Thr	Ile	Ser	Gly	Leu 220	Gln	Pro	Glu	Asp
Glu 225	Ala	Asp	Tyr	Tyr	Cys 230	ser	Ala	Trp	Asp	Ser 235	Ser	Leu	Ser	Ala	Trp 240

Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1377 <211> 249

<211> 249 <212> PRT

<213> Homo sapiens

<400> 1377

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 $$55\$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \hspace{1.5cm} 70 \hspace{1.5cm} 75 \hspace{1.5cm} 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala $85 \hspace{1cm} 90 \hspace{1cm} 95$

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp

Met Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu 130 135 140

Thr Gln Pro Ser Ser Val Ser Val Ala Pro Gly Glu Thr Ala Arg Val 145 150 150 155 160

Thr Cys Gly Gly Asn Asn Ile Gly Ser Lys Ser Val His Trp Tyr Gln 165 $$170\$

Gln Gln Pro Gly Gln Ala Pro Val Val Val Ile Tyr Tyr Asp Ser Asp $\overset{\circ}{}$ 180 $^{\circ}$ 185 $^{\circ}$ 190

Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly Asn

Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Gln Val Trp Asp Ser Ser Ser Asp Leu Tyr Val Phe Gly 225 230 235 240

Ala Gly Thr Lys Val Thr Val Leu Gly

<210> 1378

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1378

Gln Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 10 $$ 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala 20 . 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly 35 \$40\$

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln 50 $\,$ 55 $\,$ 60 $\,$

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met $65 \hspace{1cm} 70 \hspace{1cm} 75 \hspace{1cm} 80$

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala 85 $^{\circ}$ 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp $100\ ^{\circ}$ $105\ ^{\circ}$ $110\ ^{\circ}$

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu 130 135 140

Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Gly Val Thr Ile

145 150 155 160

Ser Cys Thr Gly Ser Asn Ser Asn Ile Gly Thr Thr Tyr Asp Val His 165 170 175

Asn Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys \$195\$

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Asn Ser Leu Ser Ala Trp 225 230235235

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Ser

<210> 1379

<211> 253 <212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (239)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1379

Gln Val Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Gly Ser Leu 1 5 10 15

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ser Met $20 \hspace{1cm} 25 \hspace{1cm} 30$

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser 35 40 45

Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val Lys Gly 50 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Glm 65 70 75 80

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg

85 90 95

Glu Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Asn Gly 105 110 100

Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly 120 125 .

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 185 180

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 200

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 215 210

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Xaa Thr 235 225 230

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1380

<211> 251 <212> PRT <213> Homo sapiens

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 10

Ser Val Lys Val Ser Cys Lys Ala Ser Lys Tyr Thr Phe Ala Asn His 20 25

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met 40 35

- Gly Asn Ile Asn Pro Ser Gly Ser Ser Thr Tyr Tyr Ala Gln Arg Phe
 50 55 60
- Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr 65 70 75 80
- Met Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95
- Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe
- Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$
- Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140
- Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$
- Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 190 185 190
- Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys 195 200 205
- Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp $210 \\ 210 \\ 215 \\ 220 \\ 220$
- Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val 225 230 235 240
- Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \cdot 245 250

<210> 1381

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1381 Gin Val Gin Leu Gin Gin Ser Gly Ala Glu Val Arg Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Ile Thr Asn Tyr

Phe Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 \$40\$

Gly Trp Ile Asn Pro Asn Ser Gly Asn Thr Asn Tyr Ala Gln Lys Phe $_{50}$ $_{60}$

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Thr Tyr $_{65}$ 70 $75\cdot$ 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Ser Ala Val Tyr Tyr Cys 85 90 95

Alå Ser Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr His Phe Asp Tyr Trp \$100\$

Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly 115 \$120\$

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro

Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr 145 \$150\$

Gly Thr Ser Ser Asn Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln \$165\$ \$170\$ \$175\$

Gln Gln Ala Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys 180 185 190

Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn 195 200

Thr Ala Ser Leu Thr Tle Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly 225 $$ 230 $$ 235 $$ 240

Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1382 <211> 247 <212> PRT <213> Homo sapiens <400> 1382 Gly Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 15 - 10 1 5 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp His 25 2.0 Tyr Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly Arg-Thr Arg Asn Lys Ala Asn Ser Tyr Thr Thr Glu Tyr Ala Ala 5.0 55 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Leu Thr Asn Leu 75 70 Leu Phe Leu Gln Leu Asn Gly Leu Lys Thr Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Arg Gly Pro Gly Val Ile Gly Asn Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly 120 Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala 135 Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg 180 185 190 .

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln

165

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly 225 230235235

Thr Lys Leu Thr Val Leu Gly 245

<210> 1383 <211> 251

<212> PRT

<213> Homo sapiens

<400> 1383

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ala Val Ile Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr
20 25 30

Thr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 105 110

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 150 155 160 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys . 200 195 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Asn Thr Arg Val 225 230 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1384 <211> 247 <212> PRT <213> Homo sapiens <400> 1384 Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Arg Ala Ser Gly Tyr Thr Phe Ser Ser Tyr 20 ... 25 Tyr Val His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Val Ile Asn His Ser Gly Asp Met Ala Ile Tyr Ala Gln Asn Phe 55 Gln Gly Arg Val Ser Met Thr Arg Asp Leu Leu Thr Lys Thr Ile Tyr 70

Met Glu Leu Ser Ser Leu Arg Ser Asp Asp Ser Ala Val Tyr Phe Cys $85 \hspace{0.5cm} 90 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Ala Arg Ala Val Leu Arg Tyr Ser Ala Gly Leu Gln Gly Ala Phe Asp

100 105 110

Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys 145 150150155

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys . 165 170 175

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Val

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr 210 215 220

Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly 225 230 235 240

Thr Lys Leu Thr Val Leu Gly 245

<210> 1385

<211> 248

<212> PRT <213> Homo sapiens

<400> 1385 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Gln Thr Ser Gly Thr Thr Phe Arg His Ser 20 25 30

Ala Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Phe Glu Trp Leu 35 40 45

Gly His Ile Ile Pro Val Phe Glu Thr Ala His Leu Ser Asp Lys Phe 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Val Tyr

65 70 75 80 Met Glu Leu Ser Ser Leu Arg Phe Glu Asp Thr Ala Val Tyr Tyr Cys 8.5 90 Ala Arg Val Ser Gly Tyr Asn Ser Gly Tyr Phe Glu Ser Tyr Asp Met 100 105 Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Asp Ile Val Met 130 135 Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly Asp Arg Val Thr 145 150 Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp Leu Ala Trp Tyr 165 170 175 Gln Gln Lys Pro Gly Arg Ala Pro Lys Val Leu Ile Tyr Lys Ala Ser 185

Thr Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly 195 205 205

Thr Aso Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Aso Phe Ala

210 215 220

Thr Týr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Trp Thr Phe Gly Gln 225 \$230\$

Gly Thr Lys Leu Glu Ile Lys Arg 245

<210> 1386 <211> 248 <212> PRT <213> Homo sapiens

ZZIJS HOUND BADIED

<400> 1386 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Val Lys Pro Gly Ala 1 5 10 15 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr 2.5 Tyr Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Asn Pro Ser Ser Gly Gly Thr Lys Tyr Ala Gln Lys Phe 50 55 Gln Gly Arg Leu Thr Ile Thr Ala Asp Glu Leu Thr Lys Thr Val Phe 70 Met Asp Leu Ser Arg Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 9.0 Ala Thr Leu Asn Leu Glu Lys Thr Val Val Arg Gly Phe Gly Tyr Phe 100 105 Asp Leu Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr 135 140 Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 155 Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 165 Lys Pro Gly Gin Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 230 235

Gly Thr Lys Leu Thr Val Leu Gly

<210> 1387 <211> 248 <212> PRT <213> Homo sapiens <400> 1387 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 5 10 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Asn Ser Tyr Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met Gly Tyr Ile Asn Pro Asn Asn Gly Gly Thr Thr Tyr Val Glu Lys Phe 50 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr 65 70 75 Met Glu Leu Asn Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 Ala Arq Asp His Tyr Asp Ile Leu Thr Gly Leu Tyr Tyr Tyr Gly Met 105 Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 120 125 Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 135 Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arq Ile Thr 155 150 Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln 170 175 Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Val Asn His Val Leu Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly

<210> 1388 <211> 248

<212> PRT

<213> Homo sapiens

<400> 1388 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Val Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr

Tyr Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 \$40\$

Gly Trp Ile Asn Pro Ser Ser Gly Gly Thr Lys Tyr Ala Gln Lys Phe 50 60

Gln Gly Arg Leu Thr Ile Thr Ala Asp Glu Leu Thr Lys Thr Val Phe 65 70 75 80

Met Asp Leu Ser Arg Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Thr Leu Asn Leu Glu Lys Thr Val Val Arg Gly Phe Gly Tyr Phe 100 105 110

Asp Leu Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 \$150\$

Cys Gln Gly Val Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly 225 230235235

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1389

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1389

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Tyr Thr Phe Thr Asp Tyr 20 25 30

His Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Arg Ile Asn Pro Asn Ser Gly Gly Thr Gly Tyr Ala Gln Gln Phe $50\,$

Gln Gly Arg Val Thr Leu Thr Arg Asp Thr Ser Thr Ser Arg Val Tyr 65 70 75 80

Met Glu Leu Asn Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95$

Ala Arg Gly Glu Leu Val Trp Phe Gly Glu Ser Asp Tyr Tyr Gly

Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly

115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Thr Pro Gly Gln Arg Val Thr Ile 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp \$165\$

Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn $180 \hspace{1cm} 185 \hspace{1cm} 190$

Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser 195 200. 205

Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu 210 215 220

Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val 225 230 235

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1390

<211> 251

<212> PRT <213> Homo sapiens

<400> 1390

GIn Val Gln Leu Gln Gln Ser Gly Thr Glu Ala Arg Asn Pro Gly Ala 1 $$ 10 $$ 15

Ser Val Arg Leu Ser Cýs Lys Thr Ser Gly Tyr Ser Phe Ile Asn Tyr \$20\$

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val 35 40 45

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe
100 : 105 110

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile 145 \$150\$

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

. Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys \$195\$ 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val $225 \hspace{1.5cm} 230 \hspace{1.5cm} 235 \hspace{1.5cm} 240 \hspace{1.5cm}$

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1391 <211> 240

<212> PRT

<213> Homo sapiens

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ser Phe Asp Thr Tyr

Thr Met Thr Trp Val Arg Gln Val Pro Gly Lys Gly Leu Glu Trp Leu Ser Ser Ile Thr Ser Gly Ser Arg Phe Val Tyr Tyr Ala Asp Ser Leu 55 Lys Gly Arg Ile Thr Ile Ser Arg Asp Asn Ala Arg Asn Ser Leu Thr 7.0 75 Leu Gln Val Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 Ala Arg Ser Gln Arg Leu Phe Ile Asp Ser Trp Gly Arg Gly Thr Met 100 105 Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly 120 115 Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala 130 135 140 Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser 145 150 155 Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu 165 170 Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 225

<210> 1392

<211> 256 <212> PRT

<213> Homo sapiens

<400> 1392

Gln 1	Val	Gln	Leu	Val 5	Gln	Ser	Gly	Gly	Gly 10	Leu	Val	Gln	Pro	Gly 15	Gly
Ser	Leu	Arg	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Thr	Phe	Ser 30	Asn	Tyr
Asp	Met	Ser 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Val
Ser	Gly 50	Ile	Ser	Gly	Ser	Gly 55	Gly	Ser	Lys	Tyr	Tyr 60	Ala	Asp	Ser	Val
Lys 65	Gly	Arg	Phe	Thr	Ile 70	Ser	Arg	Asp	Asn	Ser 75	Lys	Asn	Ser	Leu	Tyr 80
Leu	Gln	Val	Asn	Ser 85	Leu	Arg	Ala	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Lys	Asp	Arg 100	Tyr	Tyr	Asp	Ile	Leu 105	Thr	Gly	Tyr	Tyr	Ile 110	Pro	Gly
Leu	Asp	Asp 115	Ala	Phe	Asp	Ile	Trp 120	Gly	Gln	Gly	Thr	Leu 125	Val	Thr	Val
Ser	Ser 130	Gly	Gly	Gly	Gly	Ser 135	Gly	Gly	Gly	Gly	Ser 140	Gly	Gly	Gly	Gly
Ser 145	Gln	Ser	Val	Leu	Thr 150	Gln	Pro	Ala	Ser	Val 155	Ser	Gly	Ser	Pro	Gly 160
Gln	Ser	Ile	Thr	Ile 165	Ser	Cys	Thr	Gly	Thr 170	Ser	Ser	Asp		Gly 175	Gly
Tyr	Asn	Tyr	Val 180	ser	Trp	Tyr	Gln	Gln 185	His	Pro	Gly	Lys	Ala 190	Pro	Lys
Leu	Met	Ile 195	Tyr	Glu	Gly	Ser	Lys 200	Arg	Pro	Ser	Gly	Val 205	Ser	Asn	Arg
Phe	Ser 210	Gly	Ser	Lys	Ser	Gly 215	Asn	Thr	Ala	Ser	Leu 220	Thr	Ile	Ser	Gly
Leu 225	Gln	Ala	Glu	Asp	Glu 230	Ala	Asp	Tyr	Tyr	Cys 235	Ser	Ser	Tyr	Thr	Thr 240

Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 255

<210> 1393 <211> 246

<212> PRT <213> Homo sapiens

<400> 1393

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 $$

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Asn Phe Asn Ser Tyr 2025

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Gly Phe Ile Pro Val Phe Arg Thr Val Gln Tyr Ser Lys Lys Phe 50 55 . 60

Gln Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Tyr Asp Asp Thr Ala Met Tyr Tyr Cys 85 90 . 95

Ala Arg Asp Ser Asp Ala Arg Leu Ala Ala Leu Asp Ala Phe Asp Ile
100 105 110

Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Ser 115 120 125

. Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp 130 135 140

Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln 145 150 155 160

Gly Asp Ser Leu Arg Ser His Tyr Thr Asn Trp Phe Gln Gln Lys Pro \$165\$

Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro Ser 180 185 190 '

Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser

Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys $210 \ \ 215 \ \ \ 220$

His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly Gly Thr 225 230 235 240

Lys Leu Thr Val Leu Gly 245

<210> 1394

<211> 252 <212> PRT

<213> Homo sapiens

<400> 1394

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg 1 $\,$ 5 $\,$ 10 $\,$ 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr \$20\$

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val $_{\rm 35}$ $_{\rm 40}$ $_{\rm 45}$

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr $_{65}$ 70 75

Ala Lys Glu Glu Ser Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Val His 100 $$105\$

Tyr Tyr Gly Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser $_{130}$ $_{140}$

Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr

145 150 155 160

Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn 165 $$170\$

Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala 180 185 190

Lys Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser $195 \hspace{1.5cm} 200 \hspace{1.5cm} 205$

Glu Ala Asp Tyr Tyr Cys His Ser Arg Asp Ser Arg Gly Asn His Val 225 230 235 240

Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

<210> 1395

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1395

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ala

Ser Val Lys Val Ser Cys Thr Thr Ser Gly Tyr Ile Phe Ser Lys Tyr \$20\$

Thr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Gly Thr Lys Tyr Ser Arg Asn Phe 50 55 60

Gln Gly Arg Leu Thr Ile Ser Lys Asp Thr Ser Ala Ser Val Val Tyr $_{65}$ 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Tyr Phe Asp Gly Phe

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Leu Thr Ile 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Cys Lys

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser His Val Val 225 $$ 230 $$ 235 $$ 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1396

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1396

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 20 25 30

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe $_{50}$

Gln 65	Gly	Arg	Val	Thr	Ile 70	Thr	Lys	Asp	Thr	Ser 75	Ala	Ser	Ala	Ala	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Gly	Ser	Glu	Asp 90	Thr	Ala	Leu	Tyr	Tyr 95	Cys
Ala	Arg	Ala	Thr 100	Tyr	Asp	Pro	Leu	Thr 105	Gly	Tyr	Ser	Phe	Asp 110	Gly	Phe
Asp	Ile	Trp 115	Gly	Gln	Gly	Thr	Met 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gly
Gly	Ser 130		Gly	Gly	Gly	Ser 135	Gly	Gly	Gly	Gly	Ser 140	Gln	Ser	Val	Leu
Thr 145	Gln	Pro	Ala	Ser	Val 150	Ser	Gly	Ser	Pro	Gly 155	Gln	Ser	Ile	Thr	Ile 160
Ser	Сув	Thr	Gly	Thr 165	Ser	Ser	Asp	Val	Gly 170	Gly	Tyr	Asn	Tyr	Val 175	Ser
Trp	Tyr	Gln	Gln 180	His	Pro	Gly	Lys	Ala 185	Pro	Lys	Leu	Met	Ile 190	Tyr	Glu
Gly	Ser	Lys 195	Arg	Pro	Ser	Gly	Val 200	ser	Asn	Arg	Phe	Ser 205	Gly	Ser	Lys
Ser	Gly 210	Asn	Thr	Ala	Ser	Leu 215	Thr	Ile	Ser	Gly	Leu 220	Gln	Ala	Glu	Asp
Glu 225	Ala	Asp	Tyr	Tyr	Cys 230	Ser	Ser	Tyr	Thr	Thr 235	Arg	Ser	Thr	Arg	Val 240
Phe	Gly	Gly	Gly	Thr 245	Lys	Leu	Thr	Val	Leu 250	Gly					
<21 <21	0> 13 L> 25 2> PI B> Ho	RT	sapie	ens											
)> 13 Val		Leu	Gln 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser

Ser	Val	Lys	Val 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Gly	Thr	Phe	Ser 30	ser	Tyr
Ala	Ile	Ser 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Leu 45	Glu	Trp	Met
Gly	Arg 50	Ile	Ile	Pro	Ile	Pro 55	Gly	Ile	Ala	Asn	Tyr 60	Ala	Gln	Lys	Phe
Gln 65	Gly	Arg	Val	Thr	Ile 70	Thr	Ala	Asp	Lys	Ser 75	Thr	Ser	Thr	Ala	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Thr	Ala	Tyr 100	Tyr	Asp	Ile	Leu	Thr 105	Gly	Phe	Leu	Pro	Tyr 110	Asp	Met
Asp	Leu	Trp 115	Gly	Gln	Gly	Thr	Thr 120	Val	Thr	Va1	Ser	ser 125	Gly	Gly	Gly
Gly	Ser 130	Gly	Gly	Gly	Gly	Ser 135	Gly	Gly	Gly	Gly	Ser 140	Gln	Ser	Val	Leu
Thr 145	Gln	Pro	Ala	Ser	Val 150	Ser	Gly	Ser	Pro	Gly 155	Gln	Ser	Ile	Thr	Ile 160
Ser	Сув	Thr	Gly	Thr 165	Ser	Ser	Asp	Val	Gly 170	Gly	Tyr	Asn	Tyr	Val 175	Ser
Trp	Tyr	Gln	Gln 180	His	Pro	Gly	Lys	Ala 185	Pro	Lys	Leu	Met	Ile 190	Tyr	Glu
Gly	Ser	Lys 195	Arg	Pro	Ser	Gly	Val 200	Ser	Asn	Arg	Phe	Ser 205	Gly	ser	Lys
Ser	Gly 210	Asn	Thr	Ala	Ser	Ьеи 215	Thr	Ile	Ser	Gly	Leu 220		Ala	Glu	Asp
Glu 225	Ala	Asp	Tyr	Tyr	Cys 230	Ser	Ser	Tyr	Thr	Thr 235	Arg	Ser	Thr	Arg	Val 240
Phe	Gly	Gly	Gly	Thr 245	Lys	Leu	Thr	Val	Leu 250	Gly					

<213 <213	0 > 1. 1 > 2. 2 > IP: 3 > H	54 RT	заріс	ens											
	0> 1: Val		Leu	Gln 5	Gln	Trp	Gly	Gly	Gly 10	Val	Val	Gln	Pro	Gly 15	Arg
Ser	Leu	Arg	Leu 20	Ser	Cys	Glu	Ala	Ser 25	Gly	Phe	Thr	Phe	Ser 30	Ser	Tyr
Gly	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Val
Ala	Val 50	Ile	Ser	Tyr	Asp	Glu 55	Arg	Ile	Lys	Asn	Tyr 60	Gly	Asp	Ser	Val
Lys 65	Gly	Arg	Phe	Thr	Gly 70	Ser	Arg	Asp	Asn	Ser 75	Lys	Asn	Thr	Leu	Tyr 80
Leu	Glu	Met	Asn	ser 85	Leu	Arg	Pro	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	CAs
Ala	Thr	Glu	Val 100	Arg	Asn	Tyr	Asp	Leu 105	Leu	Thr	Arg	Ser	Tyr 110	Leu	Ala
Gly	Pro	Leu 115	Asp	Asn	Trp	Gly	Gln 120	Gly	Thr	Leu	Val	Thr 125	Val	Ser	ser
Gly	Gly 130	Gly	Gly	Ser	Gly	Gly 135	Gly	Gly	Ser	Gly	Gly 140	G1y	Gly	Ser	Gln
Ser 145	Val	Leu	Thr	Gln	Pro 150	Ala	Ser	Val	Ser	Gly 155	ser	Pro	Gly	Gln	Ser 160
Ile	Thr	Ile	Ser	Cys 165	Thr	Gly	Thr	Ser	Ser 170	Asp	Val	Gly	Gly	Tyr 175	Asn
Tyr	Val	Ser	Trp 180	Tyr	Gln	Gln	His	Pro 185	Gly	Lys	Ala	Pro	Lys 190	Leu	Met
Ile	Tyr	Glu 195	Gly	Ser	Lys	Arg	Pro 200	Ser	Gly	Val	ser	Asn 205	Arg	Phe	Ser

Gly Ser Lys Ser Gly Asp Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1399

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1399

Gly Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ser Gly Gly
1 10 15

Ser Leu Arg Leu Ser Cys Ser Ala Ser Gly Phe Ser Val Ser Ser Asn 20 25 30

His Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

Ser Val Thr Tyr Ser Gly Gly Asn Thr Asn Tyr Ala Asp Ser Val Arg 50 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu 65 70 75 80

Arg Glu Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Val Gly Val Gly 100 \$105\$

Arg Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 \$150\$

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr

165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly
195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 \$215\$

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 230235235

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1400

<211> 247 <212> PRT

<213> Homo sapiens

<400> 1400

Gln Val Thr Leu Lys Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Arg

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Gly Asp Tyr

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val \$35\$ $$40\,^{\circ}$$ 45

Gly Phe Ile Arg Ser Lys Ala Tyr Gly Gly Thr Ser Glu Tyr Ala Ala 50 $$\,^{5}$

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Thr Asn Thr 65 \cdot 70 75

Leu Tyr Leu Gln Met Thr Arg Leu Arg Ala Glu Asp Ser Ala Val Tyr \$85\$ 90 95

Tyr Cys Val Arg Arg Asp Ile Leu Thr Gly Phe Tyr Asp Ser Trp Gly

Arg Gly Thr Thr Val Thr Val ser Ser Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro 130 135 140

Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly 145 $$ 150 $$ 155 $$ 160

Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu 165 170 175

Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro $180 \,$ $\,$ 190 $\,$

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly 195 200 205

Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr 210 215

Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly 225 230 235 240

Thr Lys Leu Thr Val Leu Gly 245

<210> 1401 <211> 252 <212> PRT

<213> Homo sapiens

<400> 1401

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Asp Ser Ile Arg Arg Ser 20 25 30

Pro Tyr Tyr Trp Gly Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu
35 40 45

Trp Ile Gly Thr Val Tyr Tyr Ser Gly His Thr Tyr Tyr Asn Pro Ser 50 60

Leu Lys Ser Arg Val Thr Met Ser Val Asp Thr Phe Met Asn Gln Phe 65 70 75 80

Ser Leu Arg Leu Ala Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr $85 \\ 90 \\ 95$

Cys Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly 100 $$105\$

Phe Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 \$120\$

Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr 145 \$150\$

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val $165 \\ 170 \\ 175$

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1402 <211> 249 <212> PRT <213> Homo sapiens

(213) HOMO Bapiens

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Arg 1 5 10

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Gly Asp Tyr \$20\$

Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 40 Gly Phe Ile Arg Ser Lys Ala Tyr Gly Gly Thr Thr Glu Tyr Ala Ala Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ile Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr 85 Tyr Cys Ala Arg Asp Phe Tyr Asp Ile Leu Thr Gly Tyr Gln His Gly 100 105 Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu 130 135 Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 150 155 Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln 170 165 Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys 180 185 Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn 200 Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 210 220 215 Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly 235 240 225 230

Gly Gly Thr Lys Leu Thr Val Leu Gly 245

<212> PRT

<210> 1403 <211> 248

<213> Homo sapiens

<400> 1403

Glu Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Phe Cys Lys Ala Ser Gly Gly Thr Phe Asn Thr Tyr

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Gly Leu Ile Pro Lys Phe Gly Thr Pro Lys Tyr Ala Gln Lys Phe 50 55 60

Gln Gly Arg Leu Thr Ile Thr Ala Asp Thr Leu Thr Gly Thr Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys 85 90 95

Ala Arg His Ser Lys Glu Tyr Asn Trp Asn Tyr Ala Leu Asp Tyr Trp
100 105 110

Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly 115 \$120\$ 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro 130 135 140

Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr 145 150 150 160

Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln 165 170 175

Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys $180 \ \ \, 185 \ \ \, 190$

Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn 195 200 205

Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1404

<211> 248

<212> PRT <213> Homo sapiens

<400> 1404

Gly Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ile Tyr
20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ala Ile Ser His Asn Ala Asp His Thr Tyr Ser Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Ala Ala Thr Arg Met Asp Val Leu Thr Arg Tyr Tyr Ser Asp Phe Trp \$100\$

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
115 120 125

Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro 130 135

Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Ala Ile Ser Cys Thr $^{\circ}$ 145 $^{\circ}$ 150 $^{\circ}$ 155 $^{\circ}$ 160

Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln 165 170 175

Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys

. 180 185 190

Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn 195 200 200 205

Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp 210 215 220

Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phé Gly Gly 225 $$ 230 $$ 235 $$ 240

Gly Thr Lys Leu Thr Val Leu Gly

<210> 1405 <211> 254

<211> 254 <212> PRT

<213> Homo sapiens

<400> 1405

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 $$ 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \ \ 40 \ \ 45$

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu 50 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Met Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 . 90 95

Ala Arg Ala Phe Glu Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr His His $100 \hspace{0.5in} 105 \hspace{0.5in} 110 \hspace{0.5in}$

Asp Ala Phe Asp Ile Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln $_{130}$ $_{135}$ $_{140}$

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 150 155 Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn 165 170 Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220 Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 230 235 240 Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 <210> 1406 <211> 243 <212> PRT <213> Homo sapiens <400> 1406 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Arg Ala Ser Gly Tyr Thr Phe Ser Ser Tyr 25 Tyr Val His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 40 Gly Val Ile Asn His Ser Gly Asp Met Ala Ile Tyr Ala Gln Asn Phe

Met Glu Leu Ser Ser Leu Arg Ser Asp Asp Ser Ala Val Tyr Tyr Cys 85 90 95 $_{\rm crit}$

Gln Gly Arg Val Ser Met Thr Arg Asp Leu Leu Thr Lys Thr Ile Tyr

70

. 75

Ala Ala Pro Ser Tyr His Tyr Met App Val Trp Gly Arg Gly Thr Leu 100

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly 115

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly 130

Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp 145

Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys 175

Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val 180

Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr 195 200 205

Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser 210 215 220

Tyr Thr Thr Arg Ser Thr Arg Val. Phe Gly Gly Gly Thr Lys Leu Thr 225 230 235 240

Val Leu Gly

<210> 1407 <211> 255

<212> PRT

<213> Homo sapiens

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr \$20\$

Tyr Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45

Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Met Phe 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Ser 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Val Asn Ala Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Arg Asp 100 105 110

Tyr Tyr Gly Met Asp Val Trp Gly Lys Gly Thr Met Val Thr Val Ser 115 $$120\$

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser 130 140

Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln 145 $$150^{\circ}$$ 155 \$160

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr 165 170 175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu 180 \cdot 185 190

Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe 195 \$200\$

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu 210 \$215\$

Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly $$ 250 $$ 255

<210> 1408

<211> 251 <212> PRT

<213> Homo sapiens

<400> 1408

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ala

1				5					10					15	
Ser	Val	Lys	Val 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Tyr	Thr	Phe	Thr 30	Lys	Tyr
Thr	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Pro 45	Glu	Trp	Met
Gly	Trp 50	Ile	Asn	Gly	Gly	Ser 55	Gly	Asp	Thr	Lys	Tyr 60	Ser	Arg	Lys	Phe
Gln 65	Gly	Arg	Val	Thr	Ile 70	Thr	Lys	Asp	Thr	Ser 75	Ala	Ser	Ala	Ala	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Gly	Ser	Glu	Asp 90	Thr	Ala	Leu	Tyr	Tyr 95	Cys
Ala	Arg	Ala	Thr 100	Tyr	Asp	Pro	Leu	Thr 105	Gly	Tyr	Ser	Phe	Asp 110	Gly	Phe
Asp	Ile	Trp 115	Gly	Gln	Gly	Thr	Leu 120	Val	Thr	Val	Ser	Ser 125	Gly	Gly	Gly
Gly	ser 130	Gly	Gly	Gly	Gly	ser 135	Gly	Gly	Gly	Gly	Ser 140	Gln	ser	Val	Leu
Thr 145	Gln	Pro	Ala	Ser	Val 150	Ser	Gly	Ser	Pro	Gly 155	Gln	Ser	Ile	Thr	Ile 160
ser	Cys	Thr	Gly	Thr 165	Ser	Ser	Asp	Val	Gly 170	Gly	Tyr	Asn	Tyr	Val 175	Ser ·
Trp	Tyr	Gln	Gln 180	His	Pro	Gly	Lys	Ala 185	Pro	Lys	Leu	Met	Ile 190	Tyr	Glu
Gly	Ser	Lys 195		Pro	Ser	Gly	Val 200	Ser	Asn	Arg	Phe	Ser 205	Gly	Ser	Lys
ser	Gly 210	Asn	Thr	Ala	Ser	Leu 215	Thr	Ile	Ser	Gly	Leu 220	Gln	Ala	Glu	Asp
Glu 225		Asp	Tyr		Cys		ser	Tyr		Thr 235		Ser	Thr	Arg	Val 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1409

<211> 256 <212> PRT

<213> Homo sapiens

<400> 1409

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Glu Asn Lys Pro Val Thr 1 $$ 10 $$ 15

Ser Gly Lys Val Ser Cys Lys Ala Thr Gly Gly Thr Phe Ser Ser Tyr 20 25 30

Ala Ile Ser Trp Pro Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met $35 \hspace{1cm} 40 \hspace{1cm} 45$

Glu Gly Ile Ile Pro Ile Phe Gly Thr Ala Tyr Tyr Ala Gln Lys Phe 50 60

Gln Ser Arg Asp Ser Ile Thr Ala Asp Glu Ser Thr Ser Thr Asp Tyr 65 70 75 80

Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Glu Asp Ala Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Met $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$

Gly Ser Tyr Gly Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly 130 135 140

Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly 145 \$150\$

Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly 165 \$170\$

Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys 180 185 190

Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg

195 200 205

Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly

Leu Gln Ala Glu Asp Gly Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr 225 230235235

Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250 255

<210> 1410

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1410
Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Gln Pro Gly Ser
1 5 10 15

Ser Val Asn Val Ser Cys Lys Val Ser Gly Gly Thr Phe Gly Ser Ser 20 25 30

Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Arg Ile Ile Pro Val Leu Gly Thr Thr Asn Tyr Ala Gln Arg Phe $50\,$

Gln Gly Arg Val Thr Ile Ile Ala Asp Glu Leu Thr Asn Thr Val Asn 65 70 75 80

Met Glu Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr Cys $85 \hspace{0.5cm} 90 \hspace{0.5cm} 95 \hspace{0.5cm}$

Ala Arg Glu Thr Arg Lys Tyr Thr Ser Ser Pro Pro Tyr Asn Tyr Tyr
100 105 110

Tyr Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile 130 135

Val Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly Asp Arg 145 150 155 160

Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp Leu Ala 165

Trp Tyr Gln Gln Lys Pro Gly Arg Ala Pro Lys Val Leu Ile Tyr Lys 185 180

Ala Ser Thr Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly

Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp 215

Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Trp Thr Phe 230 235

Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg 245

<210> 1411 <211> 251 <212> PRT <400> 1411

<213> Homo sapiens

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Leu Gly Arg 5 10

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 25 20

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 40

Ala Leu Ile Ser Ser Asp Gly Ser His Lys Tyr Tyr Ala Asp Ser Val 55

Lys Gly Arg Phe Thr Val Ser Arg Val Asn Ser Glu Asn Thr Leu Phe 75 70

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90

Ala Arg Arg Asp Tyr Asp Ile Leu Thr Gly Tyr Ser Arg Gly Phe Asp 100 105 110

Pro Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Tyr Val Leu Thr 130 135 140

Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser . 145 150 155 160

Cys Ser Gly Gly Arg Ser Asn Ile Gly Ser Asn Thr Val Lys Trp Tyr \$165\$ \$170\$ \$170\$

Gln Gln Leu Pro Gly Thr Ala Ser Lys Leu Leu Ile Tyr Gly Asn Asp $180 \,$

Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly
195 200 205

Thr Ser Ala Ser Leu Ala Ile Thr Gly Val Gln Ala Glu Asp Glu Ala 210 \cdot 225 220

Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Arg Gly Ser Arg Val 225 230235235

Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly 245 250

<210> 1412

<211> 254 <212> PRT

<213> Homo sapiens

<400> 1412

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 . 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr \$20\$

Ala Ile Ser Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Met $35 \hspace{1cm} 40 \hspace{1cm} 45$

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe $50 \,$ 55 $\,$ 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Gly Ile Tyr Asp Ile Leu Thr Thr Leu Val Ser Tyr Tyr 100 105 110

As Gly Met Asp Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser 115 120 125 $\,$

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln 130 \$135\$

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser 145 \$150\$

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn $165 \hspace{1cm} 170 \hspace{1cm} 175$

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln 210 215 220

Ala Lys Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser 225 $$ 230 $$ 230 $$ 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly \$245\$

<210> 1413

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1413

Gln Ala Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu 1 5 10 15

Thr Leu Ser Leu Thr Cys Leu Val Asp Gly Gly Pro Phe Ser Gly Tyr

20 25 30

Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile

Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys 50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Gly Glu Arg Asp Ile Leu Thr Gly Tyr Tyr Leu Asp Gly Met Asp
100 105 110

Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr

Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser 145 150 150 155

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly . 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu 210 220 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe 225 230 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1414 <211> 250 <212> PRT <213> Homo sapiens <400> 1414 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr 20 25 Val Ile Ser Tro Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Tro Met 40 . 45 Gly Gly Ile Ile Pro Met Ser Gly Thr Ala Asn Tyr Ala Gln Lys Phe 50 55 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Lys Thr Ala Tyr 65 70 75 80 Met Glu Leu Ser Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95 Ala Lys Glu Arg Gly Ser Tyr Ser Ser Gly Tyr Ser Gly Ala Phe Asp 100 Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 120 125 Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr 135 Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser 145 150

Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr 170 175

Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp 185

Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly

Thr Ser Glv Ser Leu Val Ile Ser Glv Leu Gln Ser Glu Asp Glu Ala

210 215 220

Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1415

<211> 252 <212> PRT

<213> Homo sapiens

<400> 1415

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr \$20\$

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 45 .

Gly Gly Ile Ile Pro Ile Leu Gly Thr Val Asn Tyr Ala Gln Lys Phe 50 55 60

Leu Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Asn Ile Val Asn 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys 85 90 95

Ala Arg Glu Ser Gly Gly Tyr Ser Tyr Gly Ser Arg Asp Tyr Tyr Gly $100 \ 105 \ 110$

Met Asp Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Ser Gln Ser Val $130 \,$ $135 \,$ $140 \,$

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg 225 230 235

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1416

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1416

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg 1 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Glu Tyr \$20\$

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val $_{\rm 35}$ $_{\rm 40}$

Ser Gly Ile Ser Trp Asn Ser Gly Ser Ile Ala Tyr Ala Asp Ser Val $_{\mbox{50}}$

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys \$85\$

Ala Lys Asp Arg Gly Val Gly Tyr Asp Ile Leu Thr Gly Arg Thr Tyr \$100\$

Tyr Tyr Gly Met Asp Val Trp Gly Gln Arg Thr Met Val Thr Val Ser

Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 130 135 Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr 155 145 150 Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser 170 Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly 185 Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser 200 Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp 21.0 215 Glu Ala Asp Tyr Tyr Cys Asp Ser Arg Asp Ser Ser Gly Asn His Val 225 230 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 <210> 1417 <211> 248 <212> PRT <213> Homo sapiens <400> 1417 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr $20 \\ 25 \\ 30$

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe
50 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 95 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe 100 \$105\$

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ser Glu Leu Thr 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg 180 $$185\$

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Gly Gly Asn His Val Val Phe Gly Gly 225 $$ 230 $$ 235 $$ 240

Gly Thr Lys Leu Thr Val Leu Gly 245

<210> 1418

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1418

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Glu Asn Lys Pro Gly Asp 1 5 10 15

Ser Val Arg Val Ser Cyś Lys Ala Ser Gly Tyr Thr Phe Thr Ser His

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

35 40 45

Gly Val Ile Asn Pro Thr Gly Ser Ala Thr Asn Tyr Ala Gln Lys Phe
50 55 60

Gln Asp Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Asp Tyr 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Val Ser Gly His Asp Ile Leu Thr Gly Tyr Ser Tyr Arg 100 \$105\$

Tyr Phe Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly 115 \$120\$

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gln Ser 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile 145 \$150\$

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr \$165\$ \$170\$ \$175\$

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala 210 \$215\$

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr 225 $$ 230 $$ 235 $$ 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1419

<211> 249

<212> PRT

<213> Homo sapiens

)> 14 Val		Leu	Lys 5	Glu	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser
Ser	Val	Lys	Val 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Gly	Thr	Phe	Ser 30	Ser	Tyr
Gly	Ile	Ser 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Leu 45	Glu	Trp	Met
	Val 50	Ile	Ile	Pro	Met	Ile 55	Gly	Thr	Pro	His	Tyr 60	Ala	Pro	Lys	Phe
Gln 65	Gly	Arg	Val	Thr	Ile 70	Thr	Ala	Asp	Glu	Leu 75	Thr	Asn	Thr	Val	Asn 80
Leu	Asp	Leu	Ser	Ser 85	Leu	Ser	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Gly	Gln 100	Lys	Asn	Tyr	Tyr	Glu 105	Ser	Ser	Gly	Tyr	Leu 110	Glu	His
Trp	Gly	Gln 115	Gly	Thr	Leu	Val	Thr 120	Ile	Ser	Ser	Gly	Gly 125	Gly	Gly	Ser
Gly	Gly 130	Gly	Gly	Ser	Gly	Gly 135	Gly	Gly	Ser	Gln	Ser 140	Val	Leu	Thr	Gln
Pro 145	Pro	Ser	Val	Ser	Ala 150	Ala	Pro	Gly	Gln	Lys 155	Val	Thr	Ile	Ser	Cys 160
Ser	Gly	Ser	Thr	Ser 165	Asn	.Ile	Gly	Asn	Asn 170	Tyr	Val	Ser	Trp	Tyr 175	Gln
Gln	His	Pro	Gly 180	Lys	Ala	Pro	Lys	Leu 185	Met	Ile	Tyr	Asp	Val 190	Ser	Lys
Arg	Pro	Ser 195	Gly	Val	Pro	Asp	Arg 200	Phe	Ser	Gly	Ser	Lys 205	Ser	Gly	Asn
Ser	Ala 210	Ser	Leu	Asp	Ile	Ser 215	Gly	Leu	Gln	Ser	Glu 220	Asp	Glu	Ala	Asp

Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu Phe Gly

225 230 235 240

Thr Gly Thr Lys Leu Thr Val Leu Gly

<210> 1420

<211> 250 <212> PRT

<213> Homo sapiens

<400> 1420

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Arg 1 $$ 5 $$ 10 $$ 15

Ser Leu Arg Leu Ser Cys Ala Ala Şer Gly Phe Thr Phe Ser Ser Tyr \$20\$

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Ser His Phe Asp 100 105 110

Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr 130 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser 145 150 150 160

Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr 165 170 175

Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asp 180 185 190

Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly
195 200 205

Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala 210 215 220

Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe 225 230 235

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly 245 250

<210> 1421

<211> 248 <212> PRT

<213> Homo sapiens

<400> 1421

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr $\dot{}$ 20 $$ 25 $$ 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Ala Tyr Asp Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr Tyr Phe 100 105 110

Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly 115 \$120\$

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln Met 130 135 140

Thr Gln Ser Pro Ser Thr Met Ser Ala Ser Ile Gly Asp Arg Val Thr 145 150 155 Ile Thr Cys Arq Ala Ser Glu Gly Ile Tyr His Trp Leu Ala Trp Tyr 170 165 Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala Ser 185 Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly 200 Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala 215 Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly Gly 235 Gly Thr Lys Leu Glu Ile Lys Arg 245 <210> 1422 <211> 245 <212> PRT <213> Homo sapiens

<400> 1422

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr 20 25

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Lys Gly
100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly 115 120 125

Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala 130 135 140

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser 145 150155155

Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly 165 \$170\$

Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly 180 $$185\$

Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu 195 200° 205

Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala 210 215 220

Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys 225 230 235

Leu Thr Val Leu Gly 245

<210> 1423 <211> 247

<211> 247 <212> PRT

<213> Homo sapiens

<400> 1423

Gln Val Gln beu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr \$20\$

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe

50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys \$85\$ 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly 100 105 110

Lys Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala 130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly 145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln \$165\$

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg 180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr 195 200 205

Ala Ser Leu Thr Iie Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr . 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly 225 230 235

Thr Lys Leu Thr Val.Leu Asp 245

<210> 1424

<211> 242

<212> PRT <213> Homo sapiens

<400> 1424

Arg Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr 20 25 Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met 35 40 Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu 5.0 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Gln Gly 100 105 Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly 115 Ser Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser 130 135 Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp 185 Arg Phe Ser Gly Ser Ser Thr Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp

Leu Gly

235

Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val

<210> 1425 <211> 249 <212> PRT <213> Homo sapiens

<400> 1425

Gln Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ala 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met $_{\rm 35}$ $_{\rm 40}$ $_{\rm 45}$

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Gly Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Ala

Phe Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly 115 120 125

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu 130 135 . 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile 145 $$150\$

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln \$165\$

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Gly Asn 195 200 205